

Search Details

|                              |                                                                                                                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Job Title/ Assay Name : acan | Amplicon Sequence:<br>CCCAGATCGTTTACCGTGAAAAAATTAGAGTGTTCAAAGCAG<br>GCAGATCCAATTTTCTGCCACCGAATACATTAGCATGGGATAA<br>TGGAATAGGACCCTGTCCTCCTATTTTCAGTTGGTTTTGGCA<br>GCGCGAGGACTAGGGTAATGATTAATAGGGATAGTTGGGGGC<br>ATTAATATTTA |
| Effective Date : 2025-07-22  | Forward: CCCAGATCGTTTACCGTGAA                                                                                                                                                                                              |
| Database : core_nt           | Reverse: GGATAGTTGGGGGCATTAATATTTA                                                                                                                                                                                         |
| Alignment algorithm : blastN | Probe: CTGCCACCGAATACATTAGCATGG                                                                                                                                                                                            |
| Exclusive Organism:          | Inclusive Organism: Acanthamoeba                                                                                                                                                                                           |
| RID: 7ZA1J7HC015             | Total Result: 4508                                                                                                                                                                                                         |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions           | Oligo   | Mutation     | Impact          |
|----------------------------|------------------------|----------------------|---------|--------------|-----------------|
| Acanthamoeba/<br>5754      | <a href="#">3791</a>   | <a href="#">1112</a> | NA      | No Mutations | <b>Detected</b> |
|                            |                        | <a href="#">16</a>   | Forward | C1-          | <b>Detected</b> |
|                            |                        | <a href="#">7</a>    | Forward | C1-, C2-     | <b>Detected</b> |
|                            |                        | <a href="#">1</a>    | Forward | T17A         | Not Detected    |
|                            |                        |                      |         |              |                 |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation | Impact          |
|----------------------------|------------------------|-------------------|---------|----------|-----------------|
|                            |                        | <a href="#">1</a> | Reverse | A6G      | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Forward | T17C     | Not Detected    |
|                            |                        | <a href="#">1</a> | Forward | T10G     | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Probe   | C1G      | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Forward | C3A      | <b>Detected</b> |
|                            |                        | <a href="#">2</a> | Forward | A13C     | <b>Detected</b> |
|                            |                        | <a href="#">2</a> | Forward | G9T      | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Probe   | G19A     | <b>Detected</b> |
|                            |                        | <a href="#">4</a> | Forward | C8T      | <b>Detected</b> |
|                            |                        | <a href="#">2</a> | Reverse | T11G     | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Reverse | A3G      | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Forward | A13G     | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Reverse | T5C      | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Probe   | T2A      | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Reverse | A18T     | <b>Detected</b> |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation           | Impact          |
|----------------------------|------------------------|--------------------|---------|--------------------|-----------------|
|                            |                        | <a href="#">2</a>  | Reverse | A10G               | <b>Detected</b> |
|                            |                        | <a href="#">1</a>  | Forward | G9C                | <b>Detected</b> |
|                            |                        | <a href="#">1</a>  | Forward | C8G                | <b>Detected</b> |
|                            |                        | <a href="#">10</a> | Forward | C1-, C2-, C3-      | <b>Detected</b> |
|                            |                        | <a href="#">1</a>  | Probe   | +18A               | <b>Detected</b> |
|                            |                        | <a href="#">5</a>  | Forward | +6A                | <b>Detected</b> |
|                            |                        | <a href="#">1</a>  | Forward | +8T                | <b>Detected</b> |
|                            |                        | <a href="#">2</a>  | Forward | +5G                | <b>Detected</b> |
|                            |                        | <a href="#">6</a>  | Forward | C1-, C2-, C3-, A4- | <b>Detected</b> |
|                            |                        | <a href="#">2</a>  | Reverse | T1-, A2-, A3-, A4- | <b>Detected</b> |
|                            |                        | <a href="#">7</a>  | Forward | C8-                | <b>Detected</b> |
|                            |                        | <a href="#">2</a>  | Forward | T7A                | <b>Detected</b> |
|                            |                        | <a href="#">6</a>  | Forward | T7A, C8T           | <b>Detected</b> |
|                            |                        | <a href="#">1</a>  | Forward | T7C                | <b>Detected</b> |
|                            |                        | <a href="#">3</a>  | Forward | G9C, T10G          | <b>Detected</b> |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                        | Impact          |
|----------------------------|------------------------|-------------------|---------|---------------------------------|-----------------|
|                            |                        | <a href="#">6</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-      | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Probe   | G3T, T17G                       | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Reverse | A9C                             | <b>Detected</b> |
|                            |                        | <a href="#">2</a> | Probe   | G19T                            | <b>Detected</b> |
|                            |                        | <a href="#">2</a> | Reverse | C17T                            | <b>Detected</b> |
|                            |                        | <a href="#">3</a> | Probe   | C1T                             | <b>Detected</b> |
|                            |                        | <a href="#">4</a> | Forward | G5A                             | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Forward | G5A, T7A                        | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Reverse | A9G                             | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Reverse | C24A                            | Not Detected    |
|                            |                        | <a href="#">1</a> | Probe   | G23A                            | <b>Detected</b> |
|                            |                        | <a href="#">1</a> | Reverse | T1-, A2-, A3-, A4-,<br>T5-      | <b>Detected</b> |
|                            |                        | <a href="#">7</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6- | <b>Detected</b> |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                  | Impact                         |
|----------------------------|------------------------|--------------------|---------|-------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a>  | Forward | C8T, +6A                                  | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Reverse | +8T                                       | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Probe   | A18-, G19-                                | <b>Detected</b>                |
|                            |                        | <a href="#">19</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-      | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a>  | Forward | C1-, C2-                                  | <b>Detected</b>                |
|                            |                        |                    | Probe   | T17C                                      |                                |
|                            |                        | <a href="#">1</a>  | Forward | C3A, G9-                                  | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Probe   | A6C                                       | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Forward | A4G, A6T, A13C                            | Not Detected                   |
|                            |                        | <a href="#">23</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8- | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a>  | Reverse | +10A                                      | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Forward | G9-, +5G                                  | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-,<br>G9-                | <b>Detected</b>                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                                      | Impact                         |
|----------------------------|------------------------|--------------------|---------|---------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a>  | Probe   | A15T                                                          | <b>Detected</b>                |
|                            |                        | <a href="#">22</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-             | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a>  | Reverse | T8-                                                           | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Probe   | A15-                                                          | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Probe   | C1G, A6-                                                      | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Probe   | A10G                                                          | <b>Detected</b>                |
|                            |                        | <a href="#">32</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-       | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a>  | Forward | G9C, A19C, A20C                                               | Not Detected                   |
|                            |                        | <a href="#">1</a>  | Probe   | A21G                                                          | <b>Detected</b>                |
|                            |                        | <a href="#">18</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11- | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a>  | Forward | +5R                                                           | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Forward | G5A                                                           | <b>Detected</b>                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                                            | Impact                         |
|----------------------------|------------------------|--------------------|---------|---------------------------------------------------------------------|--------------------------------|
|                            |                        |                    | Probe   | C1T, +2T                                                            |                                |
|                            |                        | <a href="#">2</a>  | Probe   | A6G                                                                 | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Forward | A4G, T12-                                                           | <b>Detected</b>                |
|                            |                        | <a href="#">21</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12- | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a>  | Probe   | A6-                                                                 | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-             | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1T                                                                 |                                |
|                            |                        | <a href="#">1</a>  | Probe   | A18G, G24T                                                          | Not Detected                   |
|                            |                        |                    | Reverse | A22C                                                                |                                |
|                            |                        | <a href="#">1</a>  | Probe   | C1G, A6G                                                            | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Forward | T17A                                                                | Not Detected                   |
|                            |                        |                    | Reverse | A18G                                                                |                                |
|                            |                        | <a href="#">1</a>  | Probe   | A6T, G19A                                                           | <b>Detected</b>                |

| SPECIES/TAX-ID DETECTED | # No. of Accessions | Accessions         | Oligo   | Mutation                                                                  | Impact                      |
|-------------------------|---------------------|--------------------|---------|---------------------------------------------------------------------------|-----------------------------|
|                         |                     | <a href="#">19</a> | Forward | C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-       | limited coverage (excluded) |
|                         |                     | <a href="#">1</a>  | Forward | +8C                                                                       | <b>Detected</b>             |
|                         |                     |                    | Reverse | +17C                                                                      |                             |
|                         |                     | <a href="#">1</a>  | Probe   | G3A                                                                       | <b>Detected</b>             |
|                         |                     | <a href="#">8</a>  | Forward | C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14- | limited coverage (excluded) |
|                         |                     | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-                               | limited coverage (excluded) |
|                         |                     |                    | Probe   | A6T                                                                       |                             |
|                         |                     | <a href="#">2</a>  | Forward | T12-                                                                      | <b>Detected</b>             |
|                         |                     | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-                               | limited coverage (excluded) |
|                         |                     |                    | Probe   | A6G                                                                       |                             |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                                          | Impact                         |
|----------------------------|------------------------|-------------------|---------|---------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-                               | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | A19G                                                                                              |                                |
|                            |                        | <a href="#">5</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-          | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, C15G                                     | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C8T                                                                                               |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T17G                                     | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a> | Reverse | T1-                                                                                               | <b>Detected</b>                |
|                            |                        | <a href="#">2</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-,<br>G16- | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a> | Forward |                                                                                                   | Not Detected                   |

| SPECIES/TAX-ID DETECTED | # No. of Accessions | Accessions | Oligo   | Mutation                                                                                    |                             | Impact |
|-------------------------|---------------------|------------|---------|---------------------------------------------------------------------------------------------|-----------------------------|--------|
|                         |                     |            |         | C1-, C2-, C3-, A4-, G5-, T12-                                                               |                             |        |
|                         |                     |            | Reverse | +19A                                                                                        |                             |        |
|                         |                     | 1          | Reverse | T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-, G12-, C13-, C14-, A18C             | limited coverage (excluded) |        |
|                         |                     | 1          | Forward | C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-                                     | limited coverage (excluded) |        |
|                         |                     |            | Probe   | +2T                                                                                         |                             |        |
|                         |                     | 5          | Forward | C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17- | limited coverage (excluded) |        |
|                         |                     | 1          | Forward | G5A                                                                                         | Detected                    |        |
|                         |                     |            | Reverse | T1-, A2-, A3-, A4-, T5-, A6-, T7-                                                           |                             |        |
|                         |                     |            |         |                                                                                             |                             |        |
|                         |                     |            |         |                                                                                             |                             |        |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                                                      | Impact                         |
|----------------------------|------------------------|-------------------|---------|---------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | A4T, C8T, T10G,<br>T17C                                                                                       | Not Detected                   |
|                            |                        |                   | Probe   | C8A, T22C                                                                                                     |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-                                  | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1T, G3T                                                                                                      |                                |
|                            |                        | <a href="#">1</a> | Reverse | T23C                                                                                                          | Not Detected                   |
|                            |                        | <a href="#">8</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-,<br>G16-, T17-, G18- | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a> | Forward | C14G, +6A                                                                                                     | <b>Detected</b>                |
|                            |                        |                   | Reverse | A18C                                                                                                          |                                |
|                            |                        | <a href="#">1</a> | Forward | G5T                                                                                                           | <b>Detected</b>                |
|                            |                        |                   | Probe   | T12A                                                                                                          |                                |
|                            |                        |                   | Reverse | T1-, A2-, A3-, A4-                                                                                            |                                |
|                            |                        |                   |         |                                                                                                               |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions           | Oligo   | Mutation                                                                                  | Impact                         |
|----------------------------|------------------------|----------------------|---------|-------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a>    | Forward | +17AGGAGGG                                                                                | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>    | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-                                                      | limited coverage<br>(excluded) |
|                            |                        |                      | Probe   | +17A                                                                                      |                                |
|                            |                        |                      | Reverse | +19A                                                                                      |                                |
|                            |                        | <a href="#">1338</a> | Forward | forward_missing                                                                           | limited coverage<br>(excluded) |
|                            |                        |                      |         |                                                                                           |                                |
|                            |                        | <a href="#">1</a>    | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-                                                 | limited coverage<br>(excluded) |
|                            |                        |                      | Reverse | +19A                                                                                      |                                |
|                            |                        | <a href="#">1</a>    | Reverse | A6C, G12-                                                                                 | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>    | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-                                   | limited coverage<br>(excluded) |
|                            |                        |                      | Probe   | +15T                                                                                      |                                |
|                            |                        | <a href="#">2</a>    | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-, | limited coverage<br>(excluded) |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                                                      | Impact                         |
|----------------------------|------------------------|-------------------|---------|---------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |                   |         | G16-, T17-, G18-,<br>A19-                                                                                     |                                |
|                            |                        | <a href="#">1</a> | Forward | C8-, A13C                                                                                                     | <b>Detected</b>                |
|                            |                        | <a href="#">1</a> | Forward | C8-, +13G                                                                                                     | <b>Detected</b>                |
|                            |                        |                   | Probe   | +2C, +6G                                                                                                      |                                |
|                            |                        |                   | Reverse | +17C                                                                                                          |                                |
|                            |                        | <a href="#">3</a> | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A6C                                                                                                           |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-,<br>G16-, T17-, G18- | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | T12-                                                                                                          |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-,<br>G16-, T17-, G18- | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | G3C                                                                                                           |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                                 | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | G16C, T17G, G18T                                                                         | Not Detected                   |
|                            |                        | <a href="#">1</a> | Forward | G9C, T10G, T12C,<br>T17C, +15C                                                           | Not Detected                   |
|                            |                        |                   | Probe   | +10C                                                                                     |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, C8T                                                                       | <b>Detected</b>                |
|                            |                        | <a href="#">1</a> | Forward | +8C                                                                                      | <b>Detected</b>                |
|                            |                        |                   | Probe   | A6C, +3GC, +17T                                                                          |                                |
|                            |                        |                   | Reverse | +10A                                                                                     |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15- | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A6-                                                                                      |                                |
|                            |                        | <a href="#">1</a> | Probe   | T12-                                                                                     | <b>Detected</b>                |
|                            |                        | <a href="#">1</a> | Probe   | C8-                                                                                      | <b>Detected</b>                |
|                            |                        | <a href="#">1</a> | Probe   | A6G, C7G                                                                                 | <b>Detected</b>                |
|                            |                        | <a href="#">1</a> | Forward | A13T                                                                                     | <b>Detected</b>                |
|                            |                        |                   |         |                                                                                          |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                           | Impact                         |
|----------------------------|------------------------|------------|---------|----------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | A6C                                                |                                |
|                            |                        | 8          | Forward | forward_missing                                    | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | A6G                                                |                                |
|                            |                        | 3          | Forward | forward_missing                                    | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1T                                                |                                |
|                            |                        | 1          | Forward | C1-, C2-, C3-                                      | <b>Detected</b>                |
|                            |                        |            | Reverse | T1-, A2-, A3-, A4-,<br>T5-                         |                                |
|                            |                        | 1          | Forward | C1-, C2-, A13G                                     | Not Detected                   |
|                            |                        |            | Probe   | C1T, G9-                                           |                                |
|                            |                        | 1          | Forward | G5-, C14G, C15G                                    | Not Detected                   |
|                            |                        | 2          | Forward | T10A, T12A, C14A,<br>C15A                          | Not Detected                   |
|                            |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>A20C | limited coverage<br>(excluded) |
|                            |                        | 4          | Reverse | +17C                                               | <b>Detected</b>                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                                                      | Impact                         |
|----------------------------|------------------------|-------------------|---------|---------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Reverse | C16-, C17-                                                                                                    | Not Detected                   |
|                            |                        | <a href="#">1</a> | Forward | C8A                                                                                                           | <b>Detected</b>                |
|                            |                        | <a href="#">1</a> | Reverse | +22A                                                                                                          | <b>Detected</b>                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-,<br>G16-, T17-, G18- | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | T1-, A2-, A3-, A4-,<br>T5-, A6-, T7-, T8-,<br>A9-, A10-                                                       |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, T7C                                                                                                 | <b>Detected</b>                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, A20C                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | C16-, C17-                                                                                                    |                                |
|                            |                        | <a href="#">7</a> | Reverse | reverse_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                   |         |                                                                                                               |                                |
|                            |                        | <a href="#">1</a> | Forward | T7-, C8-                                                                                                      | <b>Detected</b>                |
|                            |                        | <a href="#">3</a> | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                   |         |                                                                                                               |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                     | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------------|--------------------------------|
|                            |                        |                   | Probe   | C4G                                                                          |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, G5T                                                                | <b>Detected</b>                |
|                            |                        |                   | Probe   | G19A                                                                         |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13- | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | +19T                                                                         |                                |
|                            |                        | <a href="#">1</a> | Reverse | +23T                                                                         | <b>Detected</b>                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-                      | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | T1-                                                                          |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>T11C                                                  | Not Detected                   |
|                            |                        |                   | Reverse | T1-, A2-                                                                     |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-,<br>A20T       | limited coverage<br>(excluded) |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                                                                                      | Impact                         |
|----------------------------|------------------------|--------------------|---------|---------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">2</a>  | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C7G                                                                                                           |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                    | Reverse | T1-, A2-, A3-, A4-, T5-,<br>A6-, T7-, T8-, A9-,<br>A10-, T11-, G12-,<br>C13-, C14-, C15-,<br>C16-, C17-, A18- |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                    | Reverse | T1-, A2-                                                                                                      |                                |
|                            |                        | <a href="#">1</a>  | Probe   | A6-                                                                                                           | <b>Detected</b>                |
|                            |                        |                    | Reverse | A6T, +17C                                                                                                     |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                    | Reverse | T1-, A2-, A3-, A4-, T5-,<br>A6-, T7-, T8-, A9-, A10-                                                          |                                |
|                            |                        | <a href="#">41</a> | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | +1C                                                                                                           |                                |
|                            |                        | <a href="#">2</a>  | Forward | forward_missing                                                                                               |                                |
|                            |                        |                    |         |                                                                                                               |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                                                           | Impact                         |
|----------------------------|------------------------|--------------------|---------|------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |                    | Probe   | G3-                                                                                | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                    | Reverse | A18C                                                                               |                                |
|                            |                        | <a href="#">27</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | A6-                                                                                |                                |
|                            |                        | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-                            | limited coverage<br>(excluded) |
|                            |                        |                    | Reverse | C13T, C14A                                                                         |                                |
|                            |                        | <a href="#">1</a>  | Reverse | T1-, A2-, A3-, A4-,<br>T5-, A6-, T7-, T8-, A9-                                     | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14- | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | G19A, T22A                                                                         |                                |
|                            |                        | <a href="#">54</a> | Probe   | +1C                                                                                | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                    |                                |
|                            |                        |                    |         |                                                                                    |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation        | Impact                         |
|----------------------------|------------------------|-------------------|---------|-----------------|--------------------------------|
|                            |                        |                   | Reverse | T1-, A2-, A3-   | limited coverage<br>(excluded) |
|                            |                        |                   | Forward | C1-             | <b>Detected</b>                |
|                            |                        | <a href="#">2</a> | Probe   | +1C             |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | T12A            |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-             | <b>Detected</b>                |
|                            |                        |                   | Reverse | A4C, A19T       |                                |
|                            |                        | <a href="#">2</a> | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +1T             |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +5C             |                                |
|                            |                        | <a href="#">2</a> | Probe   | A6-, T22-       | <b>Detected</b>                |
|                            |                        |                   | Reverse | A18-, A19-      |                                |
|                            |                        | <a href="#">6</a> | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-             |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                                                                 |                                | Impact |
|----------------------------|------------------------|--------------------|---------|------------------------------------------------------------------------------------------|--------------------------------|--------|
|                            |                        | <a href="#">2</a>  | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |        |
|                            |                        |                    | Reverse | T1-                                                                                      |                                |        |
|                            |                        | <a href="#">18</a> | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |        |
|                            |                        |                    | Reverse | reverse_missing                                                                          |                                |        |
|                            |                        | <a href="#">5</a>  | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |        |
|                            |                        |                    | Probe   | +2T                                                                                      |                                |        |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |        |
|                            |                        |                    | Probe   | G3T, +3GA                                                                                |                                |        |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |        |
|                            |                        |                    | Probe   | +14N                                                                                     |                                |        |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |        |
|                            |                        |                    | Reverse | T23G                                                                                     |                                |        |
|                            |                        | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15- | limited coverage<br>(excluded) |        |
|                            |                        |                    | Reverse | C15-, C16-, C17-                                                                         |                                |        |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                                          | Impact                         |
|----------------------------|------------------------|-------------------|---------|---------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Probe   | A11-                                                                                              | <b>Detected</b>                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                   | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1T, C7G                                                                                          |                                |
|                            |                        | <a href="#">1</a> | Reverse | T1-, A2-, A3-, A4-,<br>T5-, A6-, T7-, T8-,<br>A9-, A10-, T11-, G12-,<br>C13-, C14-, C15-,<br>C16- | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                   | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +9C                                                                                               |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, A20C                                     | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | C25G                                                                                              |                                |
|                            |                        | <a href="#">1</a> | Forward | T12-                                                                                              | <b>Detected</b>                |
|                            |                        |                   | Probe   | +1C                                                                                               |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                   | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +2C                                                                                               |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                | Impact                         |
|----------------------------|------------------------|-------------------|---------|-------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | forward_missing         | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | A4G                     |                                |
|                            |                        | <a href="#">2</a> | Forward | forward_missing         | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +7A                     |                                |
|                            |                        | <a href="#">1</a> | Probe   | +1C                     | <b>Detected</b>                |
|                            |                        |                   | Reverse | T1-, A2-, A3-, A4-, T5- |                                |
|                            |                        | <a href="#">2</a> | Forward | forward_missing         | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | G19C                    |                                |
|                            |                        | <a href="#">6</a> | Forward | forward_missing         | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +11A                    |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing         | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | A10G                    |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing         | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +2A                     |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing         | limited coverage<br>(excluded) |
|                            |                        |                   |         |                         |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                  | Impact                         |
|----------------------------|------------------------|------------|---------|-------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | +9G                                       |                                |
|                            |                        | 2          | Forward | forward_missing                           | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | A13C                                      |                                |
|                            |                        | 3          | Forward | forward_missing                           | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | G3T, C4T                                  |                                |
|                            |                        | 5          | Forward | forward_missing                           | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C5-                                       |                                |
|                            |                        | 1          | Forward | T7A, C8T, G9C,<br>+15T, +18T              | <b>Detected</b>                |
|                            |                        |            | Probe   | +2T, +15A                                 |                                |
|                            |                        |            | Reverse | +12A, C20A                                |                                |
|                            |                        | 1          | Forward | C1-                                       | <b>Detected</b>                |
|                            |                        |            | Probe   | C1T                                       |                                |
|                            |                        |            | Reverse | T1-, T11G                                 |                                |
|                            |                        | 5          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8- | limited coverage<br>(excluded) |
|                            |                        |            |         |                                           |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                      | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | +1C                                                           |                                |
|                            |                        | 1          | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | T22A                                                          |                                |
|                            |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, A19G | limited coverage<br>(excluded) |
|                            |                        |            | Reverse | C16T, C17G, A19C                                              |                                |
|                            |                        | 7          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-             | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +1C                                                           |                                |
|                            |                        | 1          | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |            | Reverse | T1-, A2-, A3-, A4-, T5-,<br>A6-, T7-, T8-, A9-,<br>A10-, T11- |                                |
|                            |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-                          | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +1C                                                           |                                |
|                            |                        | 1          | Forward | forward_missing                                               |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                                | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | G24C                                                                                                    | limited coverage<br>(excluded) |
|                            |                        |            |         |                                                                                                         |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                         | limited coverage<br>(excluded) |
|                            |                        |            | Reverse | T1-, A2-, A3-, A4-, T5-,<br>A6-, T7-, T8-, A9-,<br>A10-, T11-, G12-,<br>C13-, C14-, C15-,<br>C16-, A19G |                                |
|                            |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-                                                                              | <b>Detected</b>                |
|                            |                        |            | Reverse | T1-, A2-, A3-, A4-,<br>T5-, A6-                                                                         |                                |
|                            |                        | 1          | Forward | G5A                                                                                                     | <b>Detected</b>                |
|                            |                        |            | Reverse | T1-                                                                                                     |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                         | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | A13T                                                                                                    |                                |
|                            |                        | 1          | Probe   | T16-                                                                                                    | <b>Detected</b>                |
|                            |                        |            | Reverse | A10-                                                                                                    |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                         | limited coverage<br>(excluded) |
|                            |                        |            |         |                                                                                                         |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                             | Impact                         |
|----------------------------|------------------------|-------------------|---------|--------------------------------------|--------------------------------|
|                            |                        |                   | Reverse | T1-, A2-, A3-, A4-                   |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | G19C, +8CG                           |                                |
|                            |                        | <a href="#">7</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C8-                                  |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | T2G, C4T, +4T                        |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C8-, +2T                             |                                |
|                            |                        | <a href="#">3</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +22C                                 |                                |
|                            |                        | <a href="#">1</a> | Forward | T12-                                 | <b>Detected</b>                |
|                            |                        |                   | Probe   | +1C                                  |                                |
|                            |                        |                   | Reverse | T1-, A2-, A3-, A4-,<br>T5-, A6-, T7- |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                      |                                |
|                            |                        |                   |         |                                      |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                     | Impact                         |
|----------------------------|------------------------|------------|---------|------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | A6-                                                                          | limited coverage<br>(excluded) |
|                            |                        |            | Reverse | A22T                                                                         |                                |
|                            |                        | 1          | Forward | T10A, C15T, A20G,<br>+6G                                                     | Not Detected                   |
|                            |                        |            | Probe   | C4G, A6T                                                                     |                                |
|                            |                        |            | Reverse | A10G, A19G                                                                   |                                |
|                            |                        | 3          | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | A6-, A13-                                                                    |                                |
|                            |                        | 1          | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +18C                                                                         |                                |
|                            |                        | 2          | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +16A                                                                         |                                |
|                            |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13- | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +1C                                                                          |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                           | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-       | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | T1-, A2-, A3-, A4-,<br>C15-, C16-, C17-                                            |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C4A, C8-, +1CT                                                                     |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | T1-, A2-, A3-, A4-, T5-,<br>A6-, T7-                                               |                                |
|                            |                        | <a href="#">2</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C7A                                                                                |                                |
|                            |                        | <a href="#">2</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | T1-, A2-, A3-, A4-, T5-,<br>A6-, T7-, T8-, A9-,<br>A10-, T11-, G12-,<br>C13-, C14- |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   |         |                                                                                    |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation        | Impact                         |
|----------------------------|------------------------|-------------------|---------|-----------------|--------------------------------|
|                            |                        |                   | Probe   | +10G            |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A10G            |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C4T, +2TG       |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | T12G, +22C      |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | G19C, A21C      |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C4A, C8-, +2T   |                                |
|                            |                        | <a href="#">2</a> | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A6-, C7-        |                                |
|                            |                        | <a href="#">1</a> | Forward | G5T, G18A       | Not Detected                   |
|                            |                        |                   | Probe   |                 |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                     | Impact                         |
|----------------------------|------------------------|------------|---------|----------------------------------------------|--------------------------------|
|                            |                        |            |         | A6C, G9A, C14T,<br>A15T, G19A, C20T,<br>A21G |                                |
|                            |                        |            | Reverse | G12A, C20A                                   |                                |
|                            |                        | 2          | Forward | forward_missing                              | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | T2G                                          |                                |
|                            |                        | 1          | Forward | T12G, C15A, G16A,<br>T17A                    | Not Detected                   |
|                            |                        |            | Probe   | T17G, T22A                                   |                                |
|                            |                        |            | Reverse | A18G                                         |                                |
|                            |                        | 1          | Forward | forward_missing                              | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | G19T                                         |                                |
|                            |                        | 3          | Forward | forward_missing                              | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +17T                                         |                                |
|                            |                        | 19         | Forward | forward_missing                              | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-                                     |                                |
|                            |                        | 1          | Forward | forward_missing                              | limited coverage<br>(excluded) |
|                            |                        |            |         |                                              |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                           | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |                   | Probe   | G3T, +4NT                                                                          |                                |
|                            |                        | <a href="#">1</a> | Probe   | C1T, A6C, A13C                                                                     | Not Detected                   |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A11C, T12C                                                                         |                                |
|                            |                        | <a href="#">1</a> | Probe   | A13C, G19C                                                                         | Not Detected                   |
|                            |                        |                   | Reverse | C13G                                                                               |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +21A                                                                               |                                |
|                            |                        |                   | Reverse | T1-, A2-, A3-, A4-, T5-,<br>A6-, T7-, T8-, A9-,<br>A10-, T11-, G12-,<br>C13-, C14- |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C20-                                                                               |                                |
|                            |                        | <a href="#">4</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1A                                                                                |                                |
|                            |                        | <a href="#">4</a> | Forward | forward_missing                                                                    |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation         | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------|--------------------------------|
|                            |                        |                   | Probe   | C1-, T2-, G3-    | limited coverage<br>(excluded) |
|                            |                        |                   |         |                  |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing  | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C8-, +23C        |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing  | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +18A             |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing  | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C4T, A21-        |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing  | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A6C, +11A        |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing  | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +7G              |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing  | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A15G, G19T, +19A |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing  | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | C15G, C16G       |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                     | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13- | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | T2A                                                                          |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>A19C, A20C                                            | Not Detected                   |
|                            |                        |                   | Reverse | A3C, A10G, C16-,<br>C17-, A18-                                               |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, G18-,<br>A19-, A20- | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | T2G                                                                          |                                |
|                            |                        | <a href="#">1</a> | Forward | A6T, C8T, G18A                                                               | Not Detected                   |
|                            |                        |                   | Probe   | G3C, A10C, T16C                                                              |                                |
|                            |                        |                   | Reverse | A18C, A19C                                                                   |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A10G, +7A                                                                    |                                |
|                            |                        |                   |         |                                                                              |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                | Impact                         |
|----------------------------|------------------------|-------------------|---------|-----------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, +13T, +19TT | <b>Detected</b>                |
|                            |                        |                   | Probe   | +3G, +19T                               |                                |
|                            |                        |                   | Reverse | T1-, A2-                                |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                         | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1G, C5A, A6G                           |                                |
|                            |                        |                   | Reverse | A19T                                    |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                         | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, A6G                                |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                         | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | T17A, A18T, G19A,<br>+7G                |                                |
|                            |                        | <a href="#">2</a> | Forward | forward_missing                         | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-                 |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                         | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, G9T                      |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                                | Impact                         |
|----------------------------|------------------------|--------------------|---------|---------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">2</a>  | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, T2-, G3-, C4-                                      |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | T2C                                                     |                                |
|                            |                        | <a href="#">37</a> | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-                         |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | A6-, A10G                                               |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C4T, A10G, +22C                                         |                                |
|                            |                        | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-, G9-,<br>T10- | limited coverage<br>(excluded) |
|                            |                        |                    | Reverse | reverse_missing                                         |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | G3T, C8A, +8A                                           |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                             | Impact                         |
|----------------------------|------------------------|--------------------|---------|--------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C5G, C7A, T12-                       |                                |
|                            |                        | <a href="#">2</a>  | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C5G, C8-                             |                                |
|                            |                        | <a href="#">22</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7- |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, A6-                             |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C4G, A6C, +11A                       |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | A15G, C20A                           |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | +13A                                 |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                      |                                |
|                            |                        |                    |         |                                      |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                                                           | Impact                         |
|----------------------------|------------------------|--------------------|---------|------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |                    | Probe   | C5T                                                                                | limited coverage<br>(excluded) |
|                            |                        |                    | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        | <a href="#">21</a> | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-                                          |                                |
|                            |                        | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14- | limited coverage<br>(excluded) |
|                            |                        |                    | Reverse | T1-, A2-, A3-, A4-,<br>T5-, A6-, T7-, T8-,<br>A9-, A10-, T11-,<br>G12-, C13-, C14- |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | A21-                                                                               |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C20G                                              |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, T2-, C7A, G9A                                                                 |                                |

| SPECIES/TAX-ID DETECTED | # No. of Accessions | Accessions | Oligo   | Mutation                                    | Impact                      |
|-------------------------|---------------------|------------|---------|---------------------------------------------|-----------------------------|
|                         |                     | 1          | Forward | forward_missing                             | limited coverage (excluded) |
|                         |                     |            | Probe   | C4G, A6C                                    |                             |
|                         |                     | 1          | Forward | forward_missing                             | limited coverage (excluded) |
|                         |                     |            | Probe   | T2C, A6G, C7A, C8A, G9A, A18C               |                             |
|                         |                     | 1          | Forward | forward_missing                             | limited coverage (excluded) |
|                         |                     |            | Probe   | C4T, C5T, +7A                               |                             |
|                         |                     | 1          | Forward | C1-, G5C, C8G, A13T                         | Not Detected                |
|                         |                     | 1          | Forward | forward_missing                             | limited coverage (excluded) |
|                         |                     |            | Probe   | C5G, C7A, T12-, +7A                         |                             |
|                         |                     | 7          | Forward | forward_missing                             | limited coverage (excluded) |
|                         |                     |            | Probe   | C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9- |                             |
|                         |                     | 1          | Probe   | C1-, T2-, A6-, T17-, T22-                   | Not Detected                |
|                         |                     |            | Reverse | A19-                                        |                             |
|                         |                     | 1          | Probe   | C8G, A13C, T22G                             | Not Detected                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                               | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------|--------------------------------|
|                            |                        |                   | Reverse | C24T                                                                   |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                        | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A15G, C20A, +2C                                                        |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, A13T,<br>T17C | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a> | Forward | G5T, G9T                                                               | Not Detected                   |
|                            |                        |                   | Probe   | A6C, G9A, C14T,<br>A15T, G19A, C20T,<br>A21G                           |                                |
|                            |                        |                   | Reverse | T11A, G12A, C20A,<br>C24A                                              |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                        | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C5T, A6-, C7-                                                          |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                        | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1G, A6-, C8G, G9A                                                     |                                |
|                            |                        | <a href="#">7</a> | Forward | forward_missing                                                        | limited coverage<br>(excluded) |
|                            |                        |                   |         |                                                                        |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10- |                                |
|                            |                        | 1          | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>T12C                        |                                |
|                            |                        | 1          | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                            |                        |            | Reverse | T7G, C24T                                               |                                |
|                            |                        | 1          | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C7G, A11G                                               |                                |
|                            |                        |            | Reverse | C15G                                                    |                                |
|                            |                        | 1          | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-,<br>C8A                              |                                |
|                            |                        | 1          | Probe   | C1-, G3C, T16-, T17-                                    | Not Detected                   |
|                            |                        |            | Reverse | A19-                                                    |                                |
|                            |                        | 1          | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                            |                        |            |         |                                                         |                                |

| SPECIES/TAX-ID DETECTED | # No. of Accessions | Accessions         | Oligo   | Mutation                                                | Impact                      |
|-------------------------|---------------------|--------------------|---------|---------------------------------------------------------|-----------------------------|
|                         |                     |                    | Probe   | G3T, C5-                                                |                             |
|                         |                     |                    | Reverse | A10-                                                    |                             |
|                         |                     | <a href="#">1</a>  | Forward | forward_missing                                         | limited coverage (excluded) |
|                         |                     |                    | Probe   | +9T                                                     |                             |
|                         |                     |                    | Reverse | T11A                                                    |                             |
|                         |                     | <a href="#">1</a>  | Forward | forward_missing                                         | limited coverage (excluded) |
|                         |                     |                    | Probe   | G3T, C4A, C7-, C8-                                      |                             |
|                         |                     | <a href="#">1</a>  | Forward | forward_missing                                         | limited coverage (excluded) |
|                         |                     |                    | Probe   | C4T                                                     |                             |
|                         |                     | <a href="#">1</a>  | Forward | forward_missing                                         | limited coverage (excluded) |
|                         |                     |                    | Probe   | C1-, T2-, G3-, C4-, C5-, A6-, G9A, G19T                 |                             |
|                         |                     | <a href="#">14</a> | Forward | forward_missing                                         | limited coverage (excluded) |
|                         |                     |                    | Probe   | C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11- |                             |
|                         |                     | <a href="#">1</a>  | Forward | forward_missing                                         |                             |
|                         |                     |                    |         |                                                         |                             |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                                            | Impact                         |
|----------------------------|------------------------|--------------------|---------|---------------------------------------------------------------------|--------------------------------|
|                            |                        |                    | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, G19C, C20G                         | limited coverage<br>(excluded) |
|                            |                        |                    | Forward | forward_missing                                                     | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a>  | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, A21T, T22A                         |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                     | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, T2-                                                            |                                |
|                            |                        |                    | Reverse | A3C                                                                 |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                     | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | +12T                                                                |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                     | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, T2-, G3-, C4-,<br>A11-                                         |                                |
|                            |                        | <a href="#">29</a> | Forward | forward_missing                                                     | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12- |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                     |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                      | Impact                         |
|----------------------------|------------------------|-------------------|---------|---------------------------------------------------------------|--------------------------------|
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>+19G                              | limited coverage<br>(excluded) |
|                            |                        |                   | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a> | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, +17T                         |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | G3T, C4A, C8-                                                 |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, +22C |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, +17TT                        |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C4T, A6-, A10G, T12G,<br>A21C, T22C                           |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |                   |         |                                                               |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                 | Impact                         |
|----------------------------|------------------------|------------|---------|------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | +12T, +17T                                                                               |                                |
|                            |                        |            | Forward | forward_missing                                                                          |                                |
|                            |                        | 1          | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-       | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing                                                                          |                                |
|                            |                        | 1          | Probe   | A6-                                                                                      | limited coverage<br>(excluded) |
|                            |                        |            | Reverse | T7G, T8G                                                                                 |                                |
|                            |                        |            | Forward | forward_missing                                                                          |                                |
|                            |                        | 1          | Probe   | A15T, G19C, +3G                                                                          | limited coverage<br>(excluded) |
|                            |                        |            | Reverse | G12C                                                                                     |                                |
|                            |                        |            | Forward | forward_missing                                                                          |                                |
|                            |                        | 7          | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15- | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing                                                                          |                                |
|                            |                        | 10         | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |
|                            |                        |            |         |                                                                                          |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                       | Impact                         |
|----------------------------|------------------------|------------|---------|------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-,<br>+16G                   |                                |
|                            |                        |            | Forward | forward_missing                                                                                |                                |
|                            |                        | 1          | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-,<br>+16A                   | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing                                                                                |                                |
|                            |                        | 11         | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16- | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing                                                                                |                                |
|                            |                        | 2          | Probe   | A15C                                                                                           | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing                                                                                |                                |
|                            |                        | 1          | Probe   | G9T                                                                                            | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing                                                                                |                                |
|                            |                        | 1          | Reverse | T1-, A2-, A3-, A4-,<br>T5-, A6-, T7-, T8-,                                                     | limited coverage<br>(excluded) |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                                             | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |                   |         | A9-, A10-, T11-, G12-,<br>C17T, A22T, C25G                                                           |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, A15-, G19T,<br>C20G                                            |                                |
|                            |                        | <a href="#">5</a> | Forward | forward_missing                                                                                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17- |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1T, G3T, C4A                                                                                        |                                |
|                            |                        |                   | Reverse | T1-, A2-, +9T, +12T                                                                                  |                                |
|                            |                        | <a href="#">3</a> | Probe   | +1C                                                                                                  | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | reverse_missing                                                                                      |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A6T, +19G                                                                                            |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                      |                                |

| SPECIES/TAX-ID DETECTED | # No. of Accessions | Accessions | Oligo   | Mutation                                                                                          | Impact                      |
|-------------------------|---------------------|------------|---------|---------------------------------------------------------------------------------------------------|-----------------------------|
|                         |                     |            | Probe   | C1-, T2-, G3-, C4-, C5-, T12-, A13-, G19C, +19T                                                   | limited coverage (excluded) |
|                         |                     |            | Forward | forward_missing                                                                                   | limited coverage (excluded) |
|                         |                     | 5          | Probe   | C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18- |                             |
|                         |                     | 1          | Forward | forward_missing                                                                                   | limited coverage (excluded) |
|                         |                     |            | Probe   | C1-, T2-, A6C, T12-                                                                               |                             |
|                         |                     | 1          | Forward | forward_missing                                                                                   | limited coverage (excluded) |
|                         |                     |            | Probe   | A6G, A10G, +18T                                                                                   |                             |
|                         |                     | 1          | Probe   | C8G, A13C                                                                                         | Not Detected                |
|                         |                     |            | Reverse | A18C                                                                                              |                             |
|                         |                     | 1          | Forward | forward_missing                                                                                   | limited coverage (excluded) |
|                         |                     |            | Probe   | C1T, T2G                                                                                          |                             |
|                         |                     | 1          | Forward | forward_missing                                                                                   | limited coverage (excluded) |
|                         |                     |            |         |                                                                                                   |                             |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                                            | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-,<br>+16G                                        |                                |
|                            |                        |            | Reverse | T1-                                                                                                                 |                                |
|                            |                        | 1          | Probe   | G3C, A6C, A13C,<br>G19C                                                                                             | Not Detected                   |
|                            |                        |            | Reverse | C13G, A18C, A22T,<br>C24T                                                                                           |                                |
|                            |                        | 6          | Forward | forward_missing                                                                                                     | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17-,<br>A18-, G19- |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                     | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | A13T, +1C                                                                                                           |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                     | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | A6-, A15-                                                                                                           |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                     |                                |
|                            |                        |            |         |                                                                                                                     |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                                                  | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | C1G, C5A, A6G                                                                                                             | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing                                                                                                           | limited coverage<br>(excluded) |
|                            |                        | 1          | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, G9A, A15-, G19T,<br>A21-                                                                 |                                |
|                            |                        | 4          | Forward | forward_missing                                                                                                           | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17-,<br>A18-, G19-, C20- |                                |
|                            |                        | 1          | Forward | G5T, G9T                                                                                                                  | Not Detected                   |
|                            |                        |            | Probe   | A6C, G9A, C14T,<br>A15T, G19A, C20T,<br>A21G, G24A                                                                        |                                |
|                            |                        |            | Reverse | T1-, T11A, G12A,<br>A19C, C24A                                                                                            |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                           | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,                                                                           |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                                                        | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            |         | A10-, A11-, T12-,<br>+16G                                                                                                       |                                |
|                            |                        |            | Reverse | C15T                                                                                                                            |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                                 | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | G3T, C4G, +4AA,<br>+16A                                                                                                         |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                                 | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-,<br>+16G                                                    |                                |
|                            |                        |            | Reverse | C15G                                                                                                                            |                                |
|                            |                        | 3          | Forward | forward_missing                                                                                                                 | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17-,<br>A18-, G19-, C20-, A21- |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                                 | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | G19A, +1C                                                                                                                       |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                                                                                                                 | Impact                         |
|----------------------------|------------------------|--------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                                                                          | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C5T, A6T, C7T, C8A                                                                                                                       |                                |
|                            |                        |                    | Reverse | T1-, A2-, A10-                                                                                                                           |                                |
|                            |                        | <a href="#">12</a> | Forward | forward_missing                                                                                                                          | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17-,<br>A18-, G19-, C20-,<br>A21-, T22- |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                                                                                          | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-                                                                                  |                                |
|                            |                        |                    | Reverse | T1-, A2-, A3-, A4-, T5-,<br>A6-, T7-, T8-, A9-,<br>A10-, T11-, G12-                                                                      |                                |
|                            |                        | <a href="#">1</a>  | Forward | T17-                                                                                                                                     | Not Detected                   |
|                            |                        |                    | Probe   | G3C, A6-, C7-, A13G,<br>T22G, G24-                                                                                                       |                                |
|                            |                        |                    |         |                                                                                                                                          |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions          | Oligo   | Mutation                                                                                                                                       | Impact                         |
|----------------------------|------------------------|---------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |                     | Reverse | A19-                                                                                                                                           |                                |
|                            |                        | <a href="#">3</a>   | Forward | forward_missing                                                                                                                                | limited coverage<br>(excluded) |
|                            |                        |                     | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17-,<br>A18-, G19-, C20-,<br>A21-, T22-, G23- |                                |
|                            |                        | <a href="#">1</a>   | Forward | forward_missing                                                                                                                                | limited coverage<br>(excluded) |
|                            |                        |                     | Probe   | T2C, A6C, A11-, A21C,<br>T22C, +19Y                                                                                                            |                                |
|                            |                        | <a href="#">1</a>   | Forward | G5C, C8A, G9T                                                                                                                                  | Not Detected                   |
|                            |                        |                     | Probe   | A6C, G19T, G24T                                                                                                                                |                                |
|                            |                        | <a href="#">184</a> | Forward | forward_missing                                                                                                                                | limited coverage<br>(excluded) |
|                            |                        |                     | Probe   | probe_missing                                                                                                                                  |                                |
|                            |                        | <a href="#">1</a>   | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-,<br>G16-, T17-                                        | limited coverage<br>(excluded) |
|                            |                        |                     |         |                                                                                                                                                |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                                                                 | Impact                         |
|----------------------------|------------------------|------------|---------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | C1T, T2C, G3T, A6T,<br>C7T, A13C, A15T                                                                                                   |                                |
|                            |                        |            | Forward | forward_missing                                                                                                                          |                                |
|                            |                        | 1          | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17-,<br>A18-, G19-, T22C                | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing                                                                                                                          |                                |
|                            |                        | 1          | Probe   | C1-, T2-, +17TT                                                                                                                          | limited coverage<br>(excluded) |
|                            |                        |            | Reverse | T5A                                                                                                                                      |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                                          | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17-,<br>A18-, G19-, C20-,<br>A21-, T22- |                                |
|                            |                        |            | Reverse | A3C                                                                                                                                      |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                                          | limited coverage<br>(excluded) |
|                            |                        |            |         |                                                                                                                                          |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                     | Impact                         |
|----------------------------|------------------------|-------------------|---------|----------------------------------------------|--------------------------------|
|                            |                        |                   | Probe   | G3T, +3NT                                    |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                              | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, C14G, A15-                         |                                |
|                            |                        |                   | Reverse | reverse_missing                              |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                              | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, +12T, +17TT |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                              | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | G19A                                         |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                              | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A6-, A11-, A15-, A21T,<br>T22G               |                                |
|                            |                        | <a href="#">1</a> | Reverse | T1-, A2-                                     | <b>Detected</b>                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                              | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | T5A                                          |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                              | limited coverage<br>(excluded) |
|                            |                        |                   |         |                                              |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                                | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-,<br>G24C |                                |
|                            |                        |            |         |                                                                                                         |                                |
|                            |                        | 1          | Probe   | C1T, T2C, A6G, C7T,<br>C8T, A15G, T17C                                                                  | Not Detected                   |
|                            |                        |            | Reverse | T8C, A9G                                                                                                |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                         | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | A6-, +1C                                                                                                |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                         | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | G3T, C4T, C5A, A6C,<br>C7A, +19G                                                                        |                                |
|                            |                        |            | Reverse | T1-                                                                                                     |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                         | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | T2C, G3T, C4G, A6G,<br>A11G                                                                             |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                         | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | T2G, C4G, A6G, C7A                                                                                      |                                |

| SPECIES/TAX-ID DETECTED | # No. of Accessions | Accessions        | Oligo   | Mutation                                                                              |                             | Impact |
|-------------------------|---------------------|-------------------|---------|---------------------------------------------------------------------------------------|-----------------------------|--------|
|                         |                     | <a href="#">1</a> | Forward | forward_missing                                                                       | limited coverage (excluded) |        |
|                         |                     |                   | Probe   | +1C                                                                                   |                             |        |
|                         |                     |                   | Reverse | reverse_missing                                                                       |                             |        |
|                         |                     | <a href="#">1</a> | Forward | forward_missing                                                                       | limited coverage (excluded) |        |
|                         |                     |                   | Probe   | A6G, C7A, A15C, +3G                                                                   |                             |        |
|                         |                     | <a href="#">1</a> | Forward | forward_missing                                                                       | limited coverage (excluded) |        |
|                         |                     |                   | Probe   | C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A21C, T22C |                             |        |
|                         |                     | <a href="#">1</a> | Forward | forward_missing                                                                       | limited coverage (excluded) |        |
|                         |                     |                   | Probe   | A15-, G19A                                                                            |                             |        |
|                         |                     | <a href="#">1</a> | Forward | forward_missing                                                                       | limited coverage (excluded) |        |
|                         |                     |                   | Probe   | C1-, T2-, G3-, C4-, C5-, A6-, +17T                                                    |                             |        |
|                         |                     |                   | Reverse | +17G                                                                                  |                             |        |
|                         |                     | <a href="#">1</a> | Forward | forward_missing                                                                       | limited coverage (excluded) |        |
|                         |                     |                   |         |                                                                                       |                             |        |

| SPECIES/TAX-ID DETECTED | # No. of Accessions | Accessions        | Oligo   | Mutation                                      | Impact                      |
|-------------------------|---------------------|-------------------|---------|-----------------------------------------------|-----------------------------|
|                         |                     |                   | Probe   | C1-, T2-, C8-, A13-, T17-                     |                             |
|                         |                     |                   | Reverse | A10-, A19-                                    |                             |
|                         |                     | <a href="#">1</a> | Forward | forward_missing                               | limited coverage (excluded) |
|                         |                     |                   | Probe   | C1-, T2-, G3-, C4-, C5-, A6-, C7-, T12-, C20A |                             |
|                         |                     | <a href="#">1</a> | Forward | forward_missing                               | limited coverage (excluded) |
|                         |                     |                   | Probe   | A6G, C7A, +1G                                 |                             |
|                         |                     | <a href="#">1</a> | Forward | forward_missing                               | limited coverage (excluded) |
|                         |                     |                   | Probe   | C1-, A6G, C7A                                 |                             |
|                         |                     | <a href="#">1</a> | Forward | forward_missing                               | limited coverage (excluded) |
|                         |                     |                   | Probe   | C8T                                           |                             |
|                         |                     |                   | Reverse | T8C                                           |                             |
|                         |                     | <a href="#">1</a> | Forward | G5T, G9T, T17A                                | Not Detected                |
|                         |                     |                   | Probe   | A6C, G9A, C14T, A15T, G19A, C20T, A21G        |                             |
|                         |                     |                   |         |                                               |                             |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                                | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            | Reverse | T11A, A19C, C20A,<br>C24A                                                                               |                                |
|                            |                        |            | Forward | forward_missing                                                                                         |                                |
|                            |                        | 1          | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, G19T, A21C,<br>T22C | limited coverage<br>(excluded) |
|                            |                        |            |         |                                                                                                         |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                         | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C4G, T12-, A15T,<br>G19C, C20A, A21T                                                                    |                                |
|                            |                        |            | Reverse | G12C, A19T, T21C                                                                                        |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                         | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | A15C, G19C, +9C,<br>+20C                                                                                |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                         | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-                               |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                         |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                                            | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, A15C, T17C,<br>T22A, +11R                                                          | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing                                                                                                     | limited coverage<br>(excluded) |
|                            |                        | 1          | Probe   | T2C, T16C, +9C,<br>+16C                                                                                             |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                     | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +1T                                                                                                                 |                                |
|                            |                        |            | Reverse | reverse_missing                                                                                                     |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                     | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-                                                                                |                                |
|                            |                        |            | Reverse | +14G, +20G                                                                                                          |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                     | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17-,<br>A18-, G19- |                                |
|                            |                        |            |         |                                                                                                                     |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                              | Impact                         |
|----------------------------|------------------------|-------------------|---------|---------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Reverse | G12C                                  |                                |
|                            |                        |                   | Forward | forward_missing                       | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C5T, A6T, C8A, G9A                    |                                |
|                            |                        |                   | Reverse | +13A, +19T A                          |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                       | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | T2G, A6T, A11T, A21C                  |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, C8A, T17C | Not Detected                   |
|                            |                        |                   | Probe   | A6C, A18T, G19T,<br>G24T              |                                |
|                            |                        |                   | Reverse | T8A, A19T                             |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                       | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A15-, G19A                            |                                |
|                            |                        |                   | Reverse | T7A                                   |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                       | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, A15- |                                |

| SPECIES/TAX-ID DETECTED | # No. of Accessions | Accessions        | Oligo   | Mutation                                                | Impact                      |
|-------------------------|---------------------|-------------------|---------|---------------------------------------------------------|-----------------------------|
|                         |                     | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, C15T | limited coverage (excluded) |
|                         |                     |                   | Probe   | C1G, A10G, T16G, T17A                                   |                             |
|                         |                     |                   | Reverse | reverse_missing                                         |                             |
|                         |                     | <a href="#">1</a> | Forward | forward_missing                                         | limited coverage (excluded) |
|                         |                     |                   | Probe   | C8-, +2T                                                |                             |
|                         |                     |                   | Reverse | reverse_missing                                         |                             |
|                         |                     | <a href="#">1</a> | Forward | forward_missing                                         | limited coverage (excluded) |
|                         |                     |                   | Probe   | C1-, C5G                                                |                             |
|                         |                     |                   | Reverse | T11A, C24T                                              |                             |
|                         |                     | <a href="#">1</a> | Forward | forward_missing                                         | limited coverage (excluded) |
|                         |                     |                   | Probe   | C4G, C8-, T12G, T17G                                    |                             |
|                         |                     |                   | Reverse | A18C, A19-, A22-                                        |                             |
|                         |                     | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-,                 | limited coverage (excluded) |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                               | Impact                         |
|----------------------------|------------------------|------------|---------|----------------------------------------|--------------------------------|
|                            |                        |            |         | G9-, T10-, T11-, T12-,<br>A13-, C14-   |                                |
|                            |                        |            | Probe   | C1T, T2C, A6G, C7T,<br>C8T, A15G, T17C |                                |
|                            |                        |            | Reverse | T8C, A9G                               |                                |
|                            |                        | 1          | Forward | forward_missing                        | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | A6C, A15C, +1C                         |                                |
|                            |                        |            | Reverse | T1-                                    |                                |
|                            |                        | 1          | Forward | forward_missing                        | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | T12A, G19C, A21T,<br>T22G, +3G         |                                |
|                            |                        |            | Reverse | T5A, T11C, G12C,<br>T21C               |                                |
|                            |                        | 1          | Forward | forward_missing                        | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +2AT                                   |                                |
|                            |                        |            | Reverse | reverse_missing                        |                                |
|                            |                        | 1          | Forward | forward_missing                        | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | G3A                                    |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                                                      | Impact                         |
|----------------------------|------------------------|-------------------|---------|---------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | T2G, A6-                                                                                                      |                                |
|                            |                        |                   | Reverse | T5A, T8A, T11G,<br>G12C, T21C, A22-                                                                           |                                |
|                            |                        | <a href="#">1</a> | Probe   | A21-, T22-, G23-, G24-                                                                                        | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | reverse_missing                                                                                               |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A6-, G9T, A15-, G19-                                                                                          |                                |
|                            |                        |                   | Reverse | C20T                                                                                                          |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1T, T2G, C8T, +9N                                                                                            |                                |
|                            |                        |                   | Reverse | T8-, T11G, +23A N T<br>C                                                                                      |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-,<br>G16-, T17-, G18- | limited coverage<br>(excluded) |
|                            |                        |                   |         |                                                                                                               |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                               | Impact                         |
|----------------------------|------------------------|------------|---------|------------------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | C8G, A13C, G19C,<br>T22G                                               |                                |
|                            |                        |            | Reverse | C13G, A18C, A22T,<br>C24T                                              |                                |
|                            |                        | 1          | Forward | forward_missing                                                        | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C8T, G9-, +2T                                                          |                                |
|                            |                        |            | Reverse | +10G                                                                   |                                |
|                            |                        | 1          | Forward | forward_missing                                                        | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, A10G, G19C,<br>A21C, T22C, +22TC |                                |
|                            |                        | 1          | Forward | forward_missing                                                        | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-                                   |                                |
|                            |                        |            | Reverse | T7A, T8A, T11C,<br>G12C, C20A, T23C                                    |                                |
|                            |                        | 1          | Probe   | G19-, C20-, A21-, T22-,<br>G23-, G24-                                  | limited coverage<br>(excluded) |
|                            |                        |            | Reverse | reverse_missing                                                        |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                                                               | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                                        | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | probe_missing                                                                                                          |                                |
|                            |                        |                   | Reverse | A19C                                                                                                                   |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                                        | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A6-, C7-, T12C, A15-,<br>T22-                                                                                          |                                |
|                            |                        |                   | Reverse | A19-                                                                                                                   |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-,<br>G16-, T17-, G18-,<br>A19- | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1T, G3C, A6C,<br>A10G, A13T                                                                                           |                                |
|                            |                        |                   | Reverse | C13G, A22T, C24T                                                                                                       |                                |
|                            |                        | <a href="#">9</a> | Forward | forward_missing                                                                                                        | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | probe_missing                                                                                                          |                                |
|                            |                        |                   | Reverse | reverse_missing                                                                                                        |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                   | Impact                         |
|----------------------------|------------------------|-------------------|---------|--------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | forward_missing                            | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C4G, A10C, T17A,<br>C20A, A21T, +11G       |                                |
|                            |                        |                   | Reverse | T1-, A2-, T11A                             |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                            | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C14G, T16G                                 |                                |
|                            |                        |                   | Reverse | reverse_missing                            |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                            | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +8A                                        |                                |
|                            |                        |                   | Reverse | reverse_missing                            |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                            | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | A6-, A11T, T12-, A13-                      |                                |
|                            |                        |                   | Reverse | +8T, +17C, +22A                            |                                |
|                            |                        | <a href="#">2</a> | Probe   | T2A, C4G, +8ACGAT                          | Not Detected                   |
|                            |                        |                   | Reverse | A18G, T21C                                 |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-, |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                          | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            |         | G9-, T10-, T11-, T12-,<br>A13-, C14-                                                              | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1T, T2G, G3A,<br>A10G, +6T, +15C,<br>+20G                                                        |                                |
|                            |                        |            | Reverse | +5C, +17C A, C20T                                                                                 |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                   | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | probe_missing                                                                                     |                                |
|                            |                        |            | Reverse | T11G, +17C                                                                                        |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                   | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C4G                                                                                               |                                |
|                            |                        |            | Reverse | T1-, A2-, A3-, A4-, T5-,<br>A6-, T7-, T8-, A9-,<br>A10-, T11-, G12-,<br>C13-, C14-, C15-,<br>T21G |                                |
|                            |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, G16C,<br>T17C                            | limited coverage<br>(excluded) |
|                            |                        |            | Probe   |                                                                                                   |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                     |                                | Impact |
|----------------------------|------------------------|------------|---------|------------------------------------------------------------------------------|--------------------------------|--------|
|                            |                        |            |         | A6C, G9C, G19T,<br>C20A                                                      |                                |        |
|                            |                        |            | Reverse | T1-, A2-, A3-, A4-,<br>T5-, A6-, T7-, T8-,<br>A9-, A10-, T11-,<br>G12-, A19T |                                |        |
|                            |                        | 1          | Forward | forward_missing                                                              | limited coverage<br>(excluded) |        |
|                            |                        |            | Probe   | C1-, T12-, A15-                                                              |                                |        |
|                            |                        |            | Reverse | T8G, A9G, A10-, +19A                                                         |                                |        |
|                            |                        | 1          | Forward | forward_missing                                                              | limited coverage<br>(excluded) |        |
|                            |                        |            | Probe   | probe_missing                                                                |                                |        |
|                            |                        |            | Reverse | A3T, T7A                                                                     |                                |        |
|                            |                        | 2          | Forward | forward_missing                                                              | limited coverage<br>(excluded) |        |
|                            |                        |            | Probe   | T2A, G3A, A6T, C8A,<br>A10T, A15T, G24A                                      |                                |        |
|                            |                        |            | Reverse | C16T, A22C, C25T                                                             |                                |        |
|                            |                        | 1          | Forward | forward_missing                                                              | limited coverage<br>(excluded) |        |
|                            |                        |            | Probe   | G3-, A6T, T16C, A18T,<br>G19T, T22C, +10CATC                                 |                                |        |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                     | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | T2-, A6-, A15-, A21-                                                         |                                |
|                            |                        |                   | Reverse | A9G, A10G, A18G                                                              |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | probe_missing                                                                |                                |
|                            |                        |                   | Reverse | +17G                                                                         |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, A15G,<br>T16C, A21G               |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | probe_missing                                                                |                                |
|                            |                        |                   | Reverse | A4T                                                                          |                                |
|                            |                        | <a href="#">1</a> | Probe   | C5G, A6C, G9C, T12A,<br>C14A, A18-, G19-,<br>C20-, A21-, T22-, G23-,<br>G24- | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | reverse_missing                                                              |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                           | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | G19-                                                                               |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | G19-                                                                               |                                |
|                            |                        |                   | Reverse | reverse_missing                                                                    |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A15G, T16C,<br>A21G, G24A |                                |
|                            |                        |                   | Reverse | C14A, A19C                                                                         |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | probe_missing                                                                      |                                |
|                            |                        |                   | Reverse | T8-                                                                                |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | probe_missing                                                                      |                                |
|                            |                        |                   | Reverse |                                                                                    |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                                 |                                | Impact |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------------------------|--------------------------------|--------|
|                            |                        |                   |         | T1-, A2-, A3-, A4-,<br>C15G                                                              |                                |        |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |        |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, C14T                            |                                |        |
|                            |                        |                   | Reverse | T8G, T11C, A22G,<br>C25T                                                                 |                                |        |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |        |
|                            |                        |                   | Probe   | probe_missing                                                                            |                                |        |
|                            |                        |                   | Reverse | T1-, A2-                                                                                 |                                |        |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |        |
|                            |                        |                   | Probe   | probe_missing                                                                            |                                |        |
|                            |                        |                   | Reverse | T11G                                                                                     |                                |        |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |        |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15- |                                |        |
|                            |                        |                   |         |                                                                                          |                                |        |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                                            | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | 1          | Reverse | T8A, T11G, C17-,<br>A22T, C24T                                                                                      | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing                                                                                                     |                                |
|                            |                        |            | Probe   | probe_missing                                                                                                       |                                |
|                            |                        |            | Reverse | +23G                                                                                                                |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                     | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | probe_missing                                                                                                       |                                |
|                            |                        |            | Reverse | T1-, A2-, T21G, +23A<br>T T C                                                                                       |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                     | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17-,<br>A18-, T22G |                                |
|                            |                        |            | Reverse | A9T, A10G, A19T,<br>C20T                                                                                            |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                     | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | probe_missing                                                                                                       |                                |
|                            |                        |            |         |                                                                                                                     |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                  | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------|--------------------------------|
|                            |                        | 1          | Reverse | T1-, A2-, T8-             | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing           |                                |
|                            |                        |            | Probe   | probe_missing             |                                |
|                            |                        |            | Reverse | G12A, C20A                |                                |
|                            |                        | 1          | Forward | forward_missing           | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | probe_missing             |                                |
|                            |                        |            | Reverse | A22C                      |                                |
|                            |                        | 1          | Forward | forward_missing           | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | probe_missing             |                                |
|                            |                        |            | Reverse | T5A, T11A, G12A,<br>C20A  |                                |
|                            |                        | 1          | Forward | forward_missing           | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | probe_missing             |                                |
|                            |                        |            | Reverse | A18C, A19C, T21C,<br>T23C |                                |
|                            |                        | 1          | Forward | forward_missing           | limited coverage<br>(excluded) |
|                            |                        |            |         |                           |                                |

| SPECIES/TAX-ID<br>DETECTED       | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                          | Impact                         |
|----------------------------------|------------------------|--------------------|---------|---------------------------------------------------|--------------------------------|
| Acanthamoeba<br>castellanii/5755 | <a href="#">184</a>    |                    | Probe   | probe_missing                                     |                                |
|                                  |                        |                    | Reverse | T8C, C24T                                         |                                |
|                                  |                        | <a href="#">48</a> | NA      | No Mutations                                      | <b>Detected</b>                |
|                                  |                        | <a href="#">1</a>  | Forward | C1-, C2-                                          | <b>Detected</b>                |
|                                  |                        | <a href="#">1</a>  | Forward | C8T                                               | <b>Detected</b>                |
|                                  |                        | <a href="#">1</a>  | Forward | G5A                                               | <b>Detected</b>                |
|                                  |                        | <a href="#">1</a>  | Probe   | C1T                                               | <b>Detected</b>                |
|                                  |                        | <a href="#">3</a>  | Forward | +6A                                               | <b>Detected</b>                |
|                                  |                        | <a href="#">1</a>  | Forward | T7A, C8T                                          | <b>Detected</b>                |
|                                  |                        | <a href="#">2</a>  | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-         | limited coverage<br>(excluded) |
|                                  |                        | <a href="#">2</a>  | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9- | limited coverage<br>(excluded) |
|                                  |                        | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-,<br>G5-                        | <b>Detected</b>                |
|                                  |                        | <a href="#">1</a>  | Forward |                                                   |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                           |                                | Impact |
|----------------------------|------------------------|------------|---------|------------------------------------------------------------------------------------|--------------------------------|--------|
|                            |                        |            |         | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-                            | limited coverage<br>(excluded) |        |
|                            |                        | 7          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-                      | limited coverage<br>(excluded) |        |
|                            |                        | 1          | Probe   | C1T                                                                                | <b>Detected</b>                |        |
|                            |                        |            | Reverse | A10G                                                                               |                                |        |
|                            |                        | 3          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-       | limited coverage<br>(excluded) |        |
|                            |                        | 1          | Probe   | A13-                                                                               | <b>Detected</b>                |        |
|                            |                        | 2          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14- | limited coverage<br>(excluded) |        |
|                            |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-                | limited coverage<br>(excluded) |        |
|                            |                        | 3          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,                                         | limited coverage<br>(excluded) |        |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation        |                                                                                                               | Impact                         |
|----------------------------|------------------------|--------------------|---------|-----------------|---------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |                    |         |                 | G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-                                                                    |                                |
|                            |                        | <a href="#">1</a>  | Forward |                 | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-,<br>A19G             | limited coverage<br>(excluded) |
|                            |                        | <a href="#">59</a> | Forward | forward_missing |                                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                    |         |                 |                                                                                                               |                                |
|                            |                        | <a href="#">1</a>  | Forward |                 | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-,<br>G16-, T17-, G18- | limited coverage<br>(excluded) |
|                            |                        | <a href="#">1</a>  | Reverse |                 | +17C                                                                                                          | <b>Detected</b>                |
|                            |                        | <a href="#">1</a>  | Forward |                 | C1-, C2-, C3-                                                                                                 | <b>Detected</b>                |
|                            |                        |                    | Probe   |                 | A13C                                                                                                          |                                |
|                            |                        | <a href="#">1</a>  | Forward |                 | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   |                 | +11A                                                                                                          |                                |
|                            |                        | <a href="#">2</a>  | Forward |                 | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                            |                        |                    |         |                 |                                                                                                               |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                      | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | C1T                                                           |                                |
|                            |                        | 1          | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +9C                                                           |                                |
|                            |                        | 1          | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | A21-                                                          |                                |
|                            |                        | 2          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11- | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1T, A6C, A11T,<br>A15T, G19C,<br>+2TAAAC                     |                                |
|                            |                        | 1          | Forward | G18A                                                          | Not Detected                   |
|                            |                        |            | Probe   | G3C, A6C, C14T                                                |                                |
|                            |                        |            | Reverse | T1-, T8A, A18C,<br>A19C, T21C                                 |                                |
|                            |                        | 1          | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C8A, +8A                                                      |                                |
|                            |                        | 2          | Forward | forward_missing                                               |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                             | Impact                         |
|----------------------------|------------------------|-------------------|---------|--------------------------------------|--------------------------------|
|                            |                        |                   | Probe   | C1-, T2-                             | limited coverage<br>(excluded) |
|                            |                        |                   |         |                                      |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | T2G, A6-, A15-                       |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-              |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, +21A                       |                                |
|                            |                        | <a href="#">6</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-      |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7- |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C8-                                  |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |                   |         |                                      |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                                                                                 | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-                                                                            |                                |
|                            |                        |                   | Forward | forward_missing                                                                                                                          |                                |
|                            |                        | <a href="#">1</a> | Probe   | C1-, T2-, A6C, A11T,<br>A15T, G19C                                                                                                       | limited coverage<br>(excluded) |
|                            |                        |                   | Forward | forward_missing                                                                                                                          |                                |
|                            |                        | <a href="#">1</a> | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-                                                                      | limited coverage<br>(excluded) |
|                            |                        |                   | Forward | forward_missing                                                                                                                          |                                |
|                            |                        | <a href="#">1</a> | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, +17N                                                                                                    | limited coverage<br>(excluded) |
|                            |                        |                   | Forward | forward_missing                                                                                                                          |                                |
|                            |                        | <a href="#">2</a> | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17-,<br>A18-, G19-, C20-,<br>A21-, T22- | limited coverage<br>(excluded) |
|                            |                        |                   | Forward | forward_missing                                                                                                                          |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                                                          |                                |
|                            |                        |                   | Probe   |                                                                                                                                          |                                |

| SPECIES/TAX-ID<br>DETECTED     | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                                                                 | Impact                         |
|--------------------------------|------------------------|--------------------|---------|------------------------------------------------------------------------------------------|--------------------------------|
|                                |                        |                    | Probe   | T2-, G3-                                                                                 | limited coverage<br>(excluded) |
|                                |                        |                    | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |
|                                |                        | <a href="#">1</a>  | Probe   | A6-, C7-                                                                                 |                                |
|                                |                        | <a href="#">1</a>  | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |
|                                |                        |                    | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15- |                                |
|                                |                        |                    | Reverse | C17-                                                                                     |                                |
|                                |                        | <a href="#">10</a> | Forward | forward_missing                                                                          | limited coverage<br>(excluded) |
|                                |                        |                    | Probe   | probe_missing                                                                            |                                |
| Acanthamoeba<br>polyphaga/5757 | <a href="#">74</a>     | <a href="#">26</a> | NA      | No Mutations                                                                             | <b>Detected</b>                |
|                                |                        | <a href="#">1</a>  | Forward | C1-, T7A                                                                                 | <b>Detected</b>                |
|                                |                        | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-                                                | limited coverage<br>(excluded) |
|                                |                        | <a href="#">1</a>  | Forward | G9C, T10G, +13AC                                                                         | <b>Detected</b>                |
|                                |                        | <a href="#">1</a>  | Forward | T11A, T12A                                                                               | Not Detected                   |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                                                     | Impact                         |
|----------------------------|------------------------|--------------------|---------|------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13- | limited coverage<br>(excluded) |
|                            |                        | <a href="#">28</a> | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |                    |         |                                                                              |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | +2A                                                                          |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | T2G                                                                          |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | T2G, A6-                                                                     |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, T2-                                                                     |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | G9C                                                                          |                                |
|                            |                        | <a href="#">2</a>  | Forward | forward_missing                                                              | limited coverage<br>(excluded) |
|                            |                        |                    |         |                                                                              |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                                            | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-, A6-                                                                                        |                                |
|                            |                        |            | Forward | forward_missing                                                                                                     |                                |
|                            |                        | 1          | Probe   | C1-, T2-, G3-, C4-, C5-, A6-, C7-                                                                                   | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing                                                                                                     |                                |
|                            |                        | 1          | Probe   | C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-                               | limited coverage<br>(excluded) |
|                            |                        |            | Forward | forward_missing                                                                                                     |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                     | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +17CN                                                                                                               |                                |
|                            |                        |            | Reverse | A18G                                                                                                                |                                |
|                            |                        | 1          | Forward | forward_missing                                                                                                     | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21- |                                |
|                            |                        | 2          | Forward | forward_missing                                                                                                     |                                |

| SPECIES/TAX-ID DETECTED          | # No. of Accessions | Accessions | Oligo   | Mutation                                                                                                            | Impact                      |
|----------------------------------|---------------------|------------|---------|---------------------------------------------------------------------------------------------------------------------|-----------------------------|
|                                  |                     |            | Probe   | +3G, +17T                                                                                                           | limited coverage (excluded) |
|                                  |                     |            | Forward | forward_missing                                                                                                     | limited coverage (excluded) |
|                                  |                     |            | Probe   | C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21- |                             |
|                                  |                     |            | Reverse | T1-, A2-                                                                                                            |                             |
|                                  |                     | 1          | Forward | forward_missing                                                                                                     | limited coverage (excluded) |
|                                  |                     |            | Probe   | probe_missing                                                                                                       |                             |
|                                  |                     |            |         |                                                                                                                     |                             |
| Acanthamoeba palestinensis/28015 | 28                  | 6          | NA      | No Mutations                                                                                                        | <b>Detected</b>             |
|                                  |                     | 2          | Forward | C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-                                                                   | limited coverage (excluded) |
|                                  |                     | 1          | Forward | forward_missing                                                                                                     | limited coverage (excluded) |
|                                  |                     |            | Probe   | C1-, T2-                                                                                                            |                             |
|                                  |                     | 12         | Forward | forward_missing                                                                                                     | limited coverage (excluded) |
|                                  |                     |            |         |                                                                                                                     |                             |
|                                  |                     | 1          |         |                                                                                                                     |                             |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                  |                                | Impact |
|----------------------------|------------------------|-------------------|---------|---------------------------------------------------------------------------|--------------------------------|--------|
|                            |                        |                   | Forward | forward_missing                                                           | limited coverage<br>(excluded) |        |
|                            |                        |                   | Probe   | +2A                                                                       |                                |        |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                           | limited coverage<br>(excluded) |        |
|                            |                        |                   | Reverse | T11A                                                                      |                                |        |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                           | limited coverage<br>(excluded) |        |
|                            |                        |                   | Probe   | T2G, A6-                                                                  |                                |        |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                           | limited coverage<br>(excluded) |        |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-                                                   |                                |        |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                           | limited coverage<br>(excluded) |        |
|                            |                        |                   | Probe   | +17T                                                                      |                                |        |
|                            |                        |                   | Reverse | +17G                                                                      |                                |        |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                           | limited coverage<br>(excluded) |        |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13- |                                |        |
|                            |                        | <a href="#">1</a> | Forward | T17G                                                                      | limited coverage<br>(excluded) |        |
|                            |                        |                   |         |                                                                           |                                |        |

| SPECIES/TAX-ID<br>DETECTED     | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                           | Impact                         |
|--------------------------------|------------------------|------------|---------|------------------------------------------------------------------------------------|--------------------------------|
| Acanthamoeba<br>griffini/29195 | 26                     |            | Probe   | probe_missing                                                                      |                                |
|                                |                        |            | Reverse | reverse_missing                                                                    |                                |
|                                |                        | 6          | NA      | No Mutations                                                                       | <b>Detected</b>                |
|                                |                        | 2          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-                      | limited coverage<br>(excluded) |
|                                |                        | 2          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-       | limited coverage<br>(excluded) |
|                                |                        | 1          | Reverse | +17C                                                                               | <b>Detected</b>                |
|                                |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14- | limited coverage<br>(excluded) |
|                                |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-,<br>T17G             | limited coverage<br>(excluded) |
|                                |                        | 1          | Forward | C1-, C2-                                                                           | <b>Detected</b>                |
|                                |                        |            | Probe   | C4-, C5-                                                                           |                                |

| SPECIES/TAX-ID DETECTED        | # No. of Accessions | Accessions         | Oligo   | Mutation                                                                                          | Impact                      |
|--------------------------------|---------------------|--------------------|---------|---------------------------------------------------------------------------------------------------|-----------------------------|
|                                |                     | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-, G18- | limited coverage (excluded) |
|                                |                     | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-       | limited coverage (excluded) |
|                                |                     | <a href="#">8</a>  | Forward | forward_missing                                                                                   | limited coverage (excluded) |
|                                |                     |                    |         |                                                                                                   |                             |
|                                |                     | <a href="#">1</a>  | Forward | forward_missing                                                                                   | limited coverage (excluded) |
|                                |                     |                    | Probe   | C8A                                                                                               |                             |
|                                |                     |                    | Reverse | T1-, A2-, C17-                                                                                    |                             |
|                                |                     | <a href="#">1</a>  | Forward | forward_missing                                                                                   | limited coverage (excluded) |
|                                |                     |                    | Probe   | C5A, A6G, A15-                                                                                    |                             |
|                                |                     |                    |         |                                                                                                   |                             |
| Acanthamoeba lenticulata/29196 | <a href="#">126</a> | <a href="#">3</a>  | NA      | No Mutations                                                                                      | <b>Detected</b>             |
|                                |                     | <a href="#">40</a> | Probe   | +1C                                                                                               | <b>Detected</b>             |
|                                |                     | <a href="#">1</a>  | Probe   | +18C                                                                                              | <b>Detected</b>             |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                        | Impact       |
|----------------------------|------------------------|------------|---------|---------------------------------|--------------|
|                            |                        | 1          | Forward | C8T                             | Detected     |
|                            |                        |            | Probe   | +1C                             |              |
|                            |                        | 1          | Probe   | +1C, +5N                        | Detected     |
|                            |                        | 1          | Forward | C8-                             | Detected     |
|                            |                        |            | Probe   | +1C                             |              |
|                            |                        | 2          | Probe   | G19A, +1C                       | Detected     |
|                            |                        | 1          | Probe   | A6C, +1C                        | Detected     |
|                            |                        | 1          | Forward | T7G, C8T                        | Detected     |
|                            |                        |            | Probe   | +1C                             |              |
|                            |                        | 1          | Forward | T12A, A13T                      | Not Detected |
|                            |                        |            | Probe   | +1C                             |              |
|                            |                        | 2          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6- | Detected     |
|                            |                        |            | Probe   | +1C                             |              |
|                            |                        | 1          | Forward | C1-, +7T                        | Detected     |
|                            |                        |            | Probe   | A6C, +1C                        |              |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                      | Impact                         |
|----------------------------|------------------------|-------------------|---------|---------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-                          | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +1C                                                           |                                |
|                            |                        | <a href="#">2</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-             | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +1C                                                           |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-                               | <b>Detected</b>                |
|                            |                        |                   | Probe   | A6C, +1C                                                      |                                |
|                            |                        | <a href="#">1</a> | Forward | G5A, T7A, T12-                                                | Not Detected                   |
|                            |                        |                   | Probe   | +1C                                                           |                                |
|                            |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11- | limited coverage<br>(excluded) |
|                            |                        | <a href="#">2</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-       | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | +1C                                                           |                                |
|                            |                        |                   |         |                                                               |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                     | Impact                         |
|----------------------------|------------------------|------------|---------|------------------------------------------------------------------------------|--------------------------------|
|                            |                        | 1          | Forward | C1-, C2-, C3-                                                                | Detected                       |
|                            |                        |            | Probe   | A13T, +1C                                                                    |                                |
|                            |                        | 6          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-                | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +1C                                                                          |                                |
|                            |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-          | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +1C                                                                          |                                |
|                            |                        | 3          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13- | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +1C                                                                          |                                |
|                            |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T12A                                        | Not Detected                   |
|                            |                        |            | Probe   | A13T, +1C                                                                    |                                |
|                            |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,                                   | limited coverage<br>(excluded) |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                             | Impact                         |
|----------------------------|------------------------|------------|---------|--------------------------------------|--------------------------------|
|                            |                        |            |         | G9-, T10-, T11-, T12-,<br>A13-, C14- |                                |
|                            |                        |            | Probe   | +1C                                  |                                |
|                            |                        | 11         | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +1C                                  |                                |
|                            |                        | 9          | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |            |         |                                      |                                |
|                            |                        | 1          | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C5G, +1C                             |                                |
|                            |                        | 3          | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-                                  |                                |
|                            |                        | 1          | Forward | A6T, C8T, T12A,<br>A13G, T17G        | Not Detected                   |
|                            |                        |            | Probe   | A13T, G19T                           |                                |
|                            |                        |            | Reverse | C17G                                 |                                |
|                            |                        | 1          | Forward | forward_missing                      | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-                             |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                      | Impact                         |
|----------------------------|------------------------|------------|---------|---------------------------------------------------------------|--------------------------------|
|                            |                        | 1          | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | +9T                                                           |                                |
|                            |                        | 1          | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-                                       |                                |
|                            |                        | 1          | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-                |                                |
|                            |                        | 1          | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-       |                                |
|                            |                        | 3          | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11- |                                |
|                            |                        | 1          | Forward | forward_missing                                               | limited coverage<br>(excluded) |
|                            |                        |            | Reverse | T1-, A2-, A3-, A4-, T5-,<br>A6-, T7-, T8-                     |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                           | Impact                         |
|----------------------------|------------------------|------------|---------|------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | 1          | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | T2C                                                                                |                                |
|                            |                        | 1          | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-                                                    |                                |
|                            |                        | 1          | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14- |                                |
|                            |                        | 1          | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C4G, A6G, C8A                                                                      |                                |
|                            |                        | 1          | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | T2C, C4G, +6G                                                                      |                                |
|                            |                        | 1          | Forward | forward_missing                                                                    | limited coverage<br>(excluded) |
|                            |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,         |                                |

| SPECIES/TAX-ID DETECTED     | # No. of Accessions | Accessions        | Oligo   | Mutation                                                                                                                  | Impact                      |
|-----------------------------|---------------------|-------------------|---------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|                             |                     |                   |         | C14-, A15-, T16-, T17-, A18-                                                                                              |                             |
|                             |                     | <a href="#">1</a> | Forward | forward_missing                                                                                                           | limited coverage (excluded) |
|                             |                     |                   | Reverse | C16A                                                                                                                      |                             |
|                             |                     | <a href="#">1</a> | Forward | forward_missing                                                                                                           | limited coverage (excluded) |
|                             |                     |                   | Probe   | C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21-, T22- |                             |
|                             |                     | <a href="#">8</a> | Forward | forward_missing                                                                                                           | limited coverage (excluded) |
|                             |                     |                   | Probe   | probe_missing                                                                                                             |                             |
|                             |                     |                   |         |                                                                                                                           |                             |
| Acanthamoeba rhysodes/32599 | <a href="#">5</a>   | <a href="#">3</a> | NA      | No Mutations                                                                                                              | <b>Detected</b>             |
|                             |                     | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-                                                                                                        | <b>Detected</b>             |
|                             |                     | <a href="#">1</a> | Forward | forward_missing                                                                                                           | limited coverage (excluded) |
|                             |                     |                   |         |                                                                                                                           |                             |
| Acanthamoeba royreba/32600  | <a href="#">2</a>   | <a href="#">2</a> | NA      | No Mutations                                                                                                              | <b>Detected</b>             |
|                             |                     |                   |         |                                                                                                                           |                             |

| SPECIES/TAX-ID<br>DETECTED        | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                  | Impact                         |
|-----------------------------------|------------------------|--------------------|---------|---------------------------|--------------------------------|
| Acanthamoeba<br>culbertsoni/43142 | 56                     | <a href="#">11</a> | NA      | No Mutations              | <b>Detected</b>                |
|                                   |                        | <a href="#">1</a>  | Forward | C1-, C2-, C3-, C8T        | <b>Detected</b>                |
|                                   |                        | <a href="#">1</a>  | Probe   | C1T, G3T, A6C             | Not Detected                   |
|                                   |                        |                    | Reverse | +16A                      |                                |
|                                   |                        | <a href="#">1</a>  | Probe   | C1T, G3T, A6C, G19C, A21C | Not Detected                   |
|                                   |                        | <a href="#">30</a> | Forward | forward_missing           | limited coverage<br>(excluded) |
|                                   |                        |                    |         |                           |                                |
|                                   |                        | <a href="#">3</a>  | Forward | forward_missing           | limited coverage<br>(excluded) |
|                                   |                        |                    | Probe   | +11A                      |                                |
|                                   |                        | <a href="#">1</a>  | Forward | forward_missing           | limited coverage<br>(excluded) |
|                                   |                        |                    | Probe   | +16A                      |                                |
|                                   |                        | <a href="#">1</a>  | Forward | forward_missing           | limited coverage<br>(excluded) |
|                                   |                        |                    | Reverse | A18C                      |                                |
|                                   |                        | <a href="#">1</a>  | Forward | forward_missing           | limited coverage<br>(excluded) |
|                                   |                        |                    | Probe   | A15-                      |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                                                                                 | Impact                         |
|----------------------------|------------------------|-------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                                                          | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-                                                                                                                                      |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                                                          | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-                                                                                                                                 |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                                                          | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-                                                                |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                                                          | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17-,<br>A18-, G19-, C20-,<br>A21-, T22- |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                                                          | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | T1-, T7A, T8A, T11C,<br>G12C, T23C                                                                                                       |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                                                                                          | limited coverage<br>(excluded) |
|                            |                        |                   |         |                                                                                                                                          |                                |

| SPECIES/TAX-ID<br>DETECTED        | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                                  | Impact                         |
|-----------------------------------|------------------------|-------------------|---------|---------------------------------------------------------------------------|--------------------------------|
|                                   |                        |                   | Probe   | probe_missing                                                             |                                |
| Acanthamoeba<br>lugdunensis/61605 | 7                      | <a href="#">4</a> | NA      | No Mutations                                                              | <b>Detected</b>                |
|                                   |                        | <a href="#">3</a> | Forward | forward_missing                                                           | limited coverage<br>(excluded) |
|                                   |                        |                   |         |                                                                           |                                |
| Acanthamoeba<br>astronyxis/65658  | 17                     | <a href="#">3</a> | NA      | No Mutations                                                              | <b>Detected</b>                |
|                                   |                        | <a href="#">1</a> | Reverse | reverse_missing                                                           | limited coverage<br>(excluded) |
|                                   |                        | <a href="#">1</a> | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-, G9-,<br>T10-, T11-, T12-, A13- | limited coverage<br>(excluded) |
|                                   |                        |                   | Reverse | reverse_missing                                                           |                                |
|                                   |                        | <a href="#">1</a> | Forward | forward_missing                                                           | limited coverage<br>(excluded) |
|                                   |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-                                                   |                                |
|                                   |                        | <a href="#">5</a> | Forward | forward_missing                                                           | limited coverage<br>(excluded) |
|                                   |                        | <a href="#">1</a> | Forward | forward_missing                                                           | limited coverage<br>(excluded) |
|                                   |                        |                   | Probe   | G19T                                                                      |                                |
|                                   |                        |                   | Reverse | reverse_missing                                                           |                                |

| SPECIES/TAX-ID DETECTED      | # No. of Accessions | Accessions | Oligo   | Mutation             | Impact                      |
|------------------------------|---------------------|------------|---------|----------------------|-----------------------------|
|                              |                     | 2          | Forward | forward_missing      | limited coverage (excluded) |
|                              |                     |            | Probe   | probe_missing        |                             |
|                              |                     | 1          | Forward | forward_missing      | limited coverage (excluded) |
|                              |                     |            | Probe   | C1-, T2-, T12A, G19T |                             |
|                              |                     |            | Reverse | reverse_missing      |                             |
|                              |                     | 1          | Forward | forward_missing      | limited coverage (excluded) |
|                              |                     |            | Probe   | probe_missing        |                             |
|                              |                     |            | Reverse | T11A, C20A           |                             |
|                              |                     | 1          | Forward | forward_missing      | limited coverage (excluded) |
|                              |                     |            | Probe   | C5G, G19T, C20A      |                             |
|                              |                     |            | Reverse | reverse_missing      |                             |
| Acanthamoeba comandoni/65659 | 2                   | 1          | Reverse | C25T                 | Not Detected                |
|                              |                     | 1          | Forward | C8T, C15T            | limited coverage (excluded) |
|                              |                     |            | Probe   | C8T                  |                             |
|                              |                     |            | Reverse | reverse_missing      |                             |

| SPECIES/TAX-ID<br>DETECTED      | # No. of<br>Accessions | Accessions         | Oligo   | Mutation                                                | Impact                         |
|---------------------------------|------------------------|--------------------|---------|---------------------------------------------------------|--------------------------------|
| Acanthamoeba<br>hatchetti/65660 | <a href="#">40</a>     | <a href="#">14</a> | NA      | No Mutations                                            | <b>Detected</b>                |
|                                 |                        | <a href="#">1</a>  | Probe   | C4T                                                     | <b>Detected</b>                |
|                                 |                        | <a href="#">1</a>  | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10- | limited coverage<br>(excluded) |
|                                 |                        |                    | Reverse | A18G                                                    |                                |
|                                 |                        | <a href="#">20</a> | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                                 |                        | <a href="#">1</a>  | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                                 |                        |                    | Reverse | T11C                                                    |                                |
|                                 |                        | <a href="#">1</a>  | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                                 |                        |                    | Probe   | A6G, +15G                                               |                                |
|                                 |                        | <a href="#">1</a>  | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                                 |                        |                    | Probe   | T16C, A18T, +9T,<br>+18CAC                              |                                |
|                                 |                        | <a href="#">1</a>  | Forward | forward_missing                                         | limited coverage<br>(excluded) |
|                                 |                        |                    | Probe   | probe_missing                                           |                                |

| SPECIES/TAX-ID DETECTED       | # No. of Accessions | Accessions | Oligo   | Mutation                     | Impact                      |
|-------------------------------|---------------------|------------|---------|------------------------------|-----------------------------|
| Acanthamoeba healyi/65661     | 7                   | 2          | NA      | No Mutations                 | Detected                    |
|                               |                     | 1          | Probe   | A6C                          | Detected                    |
|                               |                     | 1          | Forward | C8A, G9C                     | Not Detected                |
|                               |                     |            | Probe   | A6C, A15C                    |                             |
|                               |                     | 2          | Forward | forward_missing              | limited coverage (excluded) |
|                               |                     |            |         |                              |                             |
|                               |                     | 1          | Forward | forward_missing              | limited coverage (excluded) |
|                               |                     |            | Probe   | C1-, T2-, G3-, C4-, C5-, A6- |                             |
| Acanthamoeba pearcei/65662    | 2                   | 1          | NA      | No Mutations                 | Detected                    |
|                               |                     | 1          | Forward | forward_missing              | limited coverage (excluded) |
|                               |                     |            |         |                              |                             |
| Acanthamoeba pustulosa/65663  | 1                   | 1          | NA      | No Mutations                 | Detected                    |
| Acanthamoeba stevensoni/65664 | 2                   | 2          | NA      | No Mutations                 | Detected                    |
| Acanthamoeba tubiashi/65665   | 2                   | 1          | Forward | forward_missing              | limited coverage (excluded) |
|                               |                     |            |         |                              |                             |
|                               |                     |            |         |                              |                             |

| SPECIES/TAX-ID<br>DETECTED          | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                                      | Impact                         |
|-------------------------------------|------------------------|------------|---------|---------------------------------------------------------------------------------------------------------------|--------------------------------|
|                                     |                        | 1          | Reverse | reverse_missing                                                                                               | limited coverage<br>(excluded) |
| Acanthamoeba<br>triangularis/146752 | 21                     | 4          | NA      | No Mutations                                                                                                  | <b>Detected</b>                |
|                                     |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-                                                       | limited coverage<br>(excluded) |
|                                     |                        | 1          | Forward | C1-, C2-, C3-, A4-,<br>G5-, A6-, T7-, C8-,<br>G9-, T10-, T11-, T12-,<br>A13-, C14-, C15-,<br>G16-, T17-, G18- | limited coverage<br>(excluded) |
|                                     |                        | 1          | Reverse | reverse_missing                                                                                               | limited coverage<br>(excluded) |
|                                     |                        | 1          | Forward | G5A, G9-                                                                                                      | <b>Detected</b>                |
|                                     |                        | 8          | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                                     |                        | 1          | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                                     |                        |            | Probe   | C1-, T2-, G3-, C4-                                                                                            |                                |
|                                     |                        | 1          | Forward | forward_missing                                                                                               | limited coverage<br>(excluded) |
|                                     |                        |            | Probe   | A6-, A15-                                                                                                     |                                |

| SPECIES/TAX-ID<br>DETECTED                | # No. of<br>Accessions | Accessions | Oligo   | Mutation                                                                                                                        | Impact                         |
|-------------------------------------------|------------------------|------------|---------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|                                           |                        |            | Reverse | +17G                                                                                                                            |                                |
|                                           |                        | 1          | Forward | forward_missing                                                                                                                 | limited coverage<br>(excluded) |
|                                           |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12-, A13-,<br>C14-, A15-, T16-, T17-,<br>A18-, G19-, C20-, A21- |                                |
|                                           |                        | 2          | Forward | forward_missing                                                                                                                 | limited coverage<br>(excluded) |
|                                           |                        |            | Probe   | probe_missing                                                                                                                   |                                |
| Acanthamoeba<br>mauritaniensis/<br>196912 | 3                      | 1          | NA      | No Mutations                                                                                                                    | <b>Detected</b>                |
|                                           |                        | 1          | Forward | C8T, G9T, T10C                                                                                                                  | <b>Detected</b>                |
|                                           |                        | 1          | Forward | forward_missing                                                                                                                 | limited coverage<br>(excluded) |
|                                           |                        |            | Probe   | C1-, T2-, G3-, C4-, C5-,<br>T12C                                                                                                |                                |
| Acanthamoeba<br>terricola/196913          | 1                      | 1          | NA      | No Mutations                                                                                                                    | <b>Detected</b>                |
| Acanthamoeba<br>divionensis/202919        | 3                      | 1          | NA      | No Mutations                                                                                                                    | <b>Detected</b>                |
|                                           |                        | 1          | Probe   | T2C, +19T                                                                                                                       | <b>Detected</b>                |
|                                           |                        |            |         |                                                                                                                                 |                                |

| SPECIES/TAX-ID<br>DETECTED     | # No. of<br>Accessions | Accessions | Oligo   | Mutation        | Impact                         |
|--------------------------------|------------------------|------------|---------|-----------------|--------------------------------|
|                                |                        | 1          | Reverse | reverse_missing | limited coverage<br>(excluded) |
| Acanthamoeba<br>quina/211522   | 13                     | 7          | NA      | No Mutations    | <b>Detected</b>                |
|                                |                        | 2          | Probe   | C1T             | <b>Detected</b>                |
|                                |                        | 2          | Forward | forward_missing | limited coverage<br>(excluded) |
|                                |                        | 1          | Forward | forward_missing | limited coverage<br>(excluded) |
|                                |                        |            | Probe   | C1-, T2-, G3-   |                                |
|                                |                        | 1          | Forward | forward_missing | limited coverage<br>(excluded) |
|                                |                        |            | Probe   | probe_missing   |                                |
|                                |                        |            |         |                 |                                |
| Acanthamoeba<br>jacobsi/238784 | 72                     | 26         | NA      | No Mutations    | <b>Detected</b>                |
|                                |                        | 1          | Forward | +8C             | <b>Detected</b>                |
|                                |                        | 1          | Forward | +6A             | <b>Detected</b>                |
|                                |                        | 1          | Forward | T12C, +12C      | <b>Detected</b>                |
|                                |                        | 1          | Probe   | C8-             | <b>Detected</b>                |
|                                |                        | 1          | Forward | T7A, C8T        | <b>Detected</b>                |
|                                |                        |            |         |                 |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions         | Oligo   | Mutation        | Impact                         |
|----------------------------|------------------------|--------------------|---------|-----------------|--------------------------------|
|                            |                        |                    | Reverse | T8C             |                                |
|                            |                        | <a href="#">24</a> | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                    |         |                 |                                |
|                            |                        | <a href="#">3</a>  | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | A6-             |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | T2C             |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | G9A             |                                |
|                            |                        | <a href="#">2</a>  | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                    | Reverse | T8C             |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C5-             |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing | limited coverage<br>(excluded) |
|                            |                        |                    | Probe   | C1-, T2-, G3-   |                                |
|                            |                        | <a href="#">1</a>  | Forward | forward_missing |                                |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions        | Oligo   | Mutation                                                            | Impact                         |
|----------------------------|------------------------|-------------------|---------|---------------------------------------------------------------------|--------------------------------|
|                            |                        |                   | Probe   | C1-, T2-                                                            | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | T8C                                                                 |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                     | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1T, A6G, C7A, C8A                                                  |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                     | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, G3-, C4-, C5-,<br>A6-, C7-, C8-, G9-,<br>A10-, A11-, T12- |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                     | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | T16C, T22C                                                          |                                |
|                            |                        |                   | Reverse | A10G                                                                |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                     | limited coverage<br>(excluded) |
|                            |                        |                   | Reverse | T11C, G12C, C14A,<br>C15A, A19T                                     |                                |
|                            |                        | <a href="#">1</a> | Forward | forward_missing                                                     | limited coverage<br>(excluded) |
|                            |                        |                   | Probe   | C1-, T2-, A6C                                                       |                                |
|                            |                        |                   | Reverse | A10G                                                                |                                |

| SPECIES/TAX-ID DETECTED        | # No. of Accessions | Accessions        | Oligo   | Mutation                   | Impact                      |
|--------------------------------|---------------------|-------------------|---------|----------------------------|-----------------------------|
|                                |                     | <a href="#">1</a> | Forward | forward_missing            | limited coverage (excluded) |
|                                |                     |                   | Probe   | A6-                        |                             |
|                                |                     |                   | Reverse | T8C, G12-, C13-            |                             |
|                                |                     | <a href="#">1</a> | Forward | forward_missing            | limited coverage (excluded) |
|                                |                     |                   | Probe   | A6T, A10C, A15T, +2C, +22C |                             |
|                                |                     |                   |         |                            |                             |
| Acanthamoeba echinulata/306324 | <a href="#">1</a>   | <a href="#">1</a> | NA      | No Mutations               | <b>Detected</b>             |
| Acanthamoeba cf. healyi/682864 | <a href="#">10</a>  | <a href="#">2</a> | NA      | No Mutations               | <b>Detected</b>             |
|                                |                     | <a href="#">3</a> | Forward | forward_missing            | limited coverage (excluded) |
|                                |                     |                   |         |                            |                             |
|                                |                     | <a href="#">1</a> | Forward | A13T                       | <b>Detected</b>             |
|                                |                     |                   | Reverse | C17A, A18C                 |                             |
|                                |                     | <a href="#">1</a> | Forward | C1-, C2-, A13T, C15-, G18C | Not Detected                |
|                                |                     | <a href="#">1</a> | Forward | forward_missing            | limited coverage (excluded) |
|                                |                     |                   | Probe   | A6C, A21-                  |                             |
|                                |                     |                   |         |                            |                             |
|                                |                     |                   |         |                            |                             |

| SPECIES/TAX-ID DETECTED         | # No. of Accessions | Accessions | Oligo   | Mutation                                             | Impact                      |
|---------------------------------|---------------------|------------|---------|------------------------------------------------------|-----------------------------|
|                                 |                     | 1          | Reverse | +11C                                                 | limited coverage (excluded) |
|                                 |                     |            | Forward | forward_missing                                      |                             |
|                                 |                     |            | Probe   | C1-, A6-, A21-                                       |                             |
|                                 |                     |            | Reverse | +11C                                                 |                             |
|                                 |                     | 1          | Forward | C1-, C2-, C3-, A4-, G5-, A6-, T12C, A13G, C14T, G18C | limited coverage (excluded) |
|                                 |                     |            | Probe   | C4T, A6T, T12-, A13G, A18C, A21T, G24C               |                             |
|                                 |                     |            | Reverse | reverse_missing                                      |                             |
| Acanthamoeba micheli/1675013    | 1                   | 1          | NA      | No Mutations                                         | Detected                    |
| Acanthamoeba pyriformis/1899168 | 1                   | 1          | Probe   | C4T, C8T                                             | Detected                    |
| Acanthamoeba byersi/2506114     | 10                  | 1          | NA      | No Mutations                                         | Detected                    |
|                                 |                     | 3          | Forward | forward_missing                                      | limited coverage (excluded) |
|                                 |                     |            |         |                                                      |                             |
|                                 |                     | 1          | Forward | forward_missing                                      | limited coverage (excluded) |
|                                 |                     |            |         |                                                      |                             |

| SPECIES/TAX-ID<br>DETECTED | # No. of<br>Accessions | Accessions | Oligo   | Mutation        |                                | Impact |
|----------------------------|------------------------|------------|---------|-----------------|--------------------------------|--------|
|                            |                        |            | Probe   | +9C             |                                |        |
|                            |                        | 1          | Forward | forward_missing | limited coverage<br>(excluded) |        |
|                            |                        |            | Reverse | reverse_missing |                                |        |
|                            |                        | 1          | Forward | forward_missing | limited coverage<br>(excluded) |        |
|                            |                        |            | Probe   | +9G             |                                |        |
|                            |                        | 3          | Forward | forward_missing | limited coverage<br>(excluded) |        |
|                            |                        |            | Probe   | probe_missing   |                                |        |
|                            |                        |            |         |                 |                                |        |