

Search Details

|                                         |                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Job Title/ Assay Name :<br>glabrata(in) | Amplicon Sequence:<br>GCCTGTTTGAGCGTCATTTCTTCTCAAACACGTTGTGTTTGGTAGT<br>GAGTGATACTCTCGTTTTTGTAGTTAACTTGAAATTGTAGGCCATATC<br>AGTATGTGGGACACGAGCGCAAGCTTCTCTATTAATCTGCTGCTCGT<br>TTGCGCGAGCGGCGGGGGTTAATACTGTATTAGGTTTTACCAACTC<br>GGTGTGATCTAGGGAGGGATAAGTGAGTGTTCTGTGCGTGCTGGG<br>CAGACAGACGTCTTTAAGTTTGACCTCAAATCCGGTAGGGTTACCC<br>GCTGAACTTAAGCATATCAATAAGCGGAGG |
| Effective Date : 2025-10-13             | Forward: GCAGACAGACGTCTTTAAGTT                                                                                                                                                                                                                                                                                                                                     |
| Database : core_nt                      | Reverse: CCTCCGCTTATTGATATGCTTA                                                                                                                                                                                                                                                                                                                                    |
| Alignment algorithm : blastN            | Probe: CCTCAAATCCGGTAGGGTTACCCGCTG                                                                                                                                                                                                                                                                                                                                 |
| Exclusive Organism:                     | Inclusive Organism: Nakaseomyces glabratus (5478)                                                                                                                                                                                                                                                                                                                  |
| RID: ET27WZH7014                        | Total Result: 1573                                                                                                                                                                                                                                                                                                                                                 |
| App Version: 1.0                        |                                                                                                                                                                                                                                                                                                                                                                    |

| #Accessions                                          | #Accession Details                                                                                           | Oligo   | Mutation                     | Impact   |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------|------------------------------|----------|
| Nakaseomyces glabratus/5478 Analyzed Accessions: 424 |                                                                                                              |         |                              |          |
| <a href="#">122</a>                                  | <a href="#">122</a>                                                                                          | Probe   | C10A                         | Detected |
| <a href="#">3</a>                                    | <a href="#">KP764979</a><br><a href="#">KP674722</a><br><a href="#">MH534928</a>                             | Probe   | C10A                         | Detected |
|                                                      |                                                                                                              | Reverse | +6G                          |          |
| <a href="#">4</a>                                    | <a href="#">KP764972</a><br><a href="#">KP764973</a><br><a href="#">KY963096</a><br><a href="#">KY963116</a> | Probe   | C10A                         | Detected |
|                                                      |                                                                                                              | Reverse | A10T, T11A                   |          |
| <a href="#">2</a>                                    | <a href="#">ON016552</a><br><a href="#">ON016560</a>                                                         | Probe   | C10A                         | Detected |
|                                                      |                                                                                                              | Reverse | T11G                         |          |
| <a href="#">1</a>                                    | <a href="#">KP764980</a>                                                                                     | Probe   | C10A                         | Detected |
|                                                      |                                                                                                              | Reverse | C1-, C7T, T11A               |          |
| <a href="#">1</a>                                    | <a href="#">ON112282</a>                                                                                     | Probe   | C10A                         | Detected |
|                                                      |                                                                                                              | Reverse | C1-, C7T, A10T               |          |
| <a href="#">1</a>                                    | <a href="#">KP675693</a>                                                                                     | Probe   | C10A                         | Detected |
|                                                      |                                                                                                              | Reverse | +9T                          |          |
| <a href="#">2</a>                                    | <a href="#">KX450858</a><br><a href="#">OL604784</a>                                                         | Probe   | C10A                         | Detected |
|                                                      |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6- |          |
| <a href="#">2</a>                                    | <a href="#">MF187309</a><br><a href="#">KP675600</a>                                                         | Probe   | C10A                         | Detected |
|                                                      |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, A10T     |          |
| <a href="#">3</a>                                    | <a href="#">OR091285</a><br><a href="#">MW358893</a><br><a href="#">KY963099</a>                             | Probe   | C10A                         | Detected |
|                                                      |                                                                                                              | Reverse | T12-                         |          |
| <a href="#">13</a>                                   | <a href="#">MF187243</a><br><a href="#">OK317687</a>                                                         | Probe   | C10A                         | Detected |
|                                                      |                                                                                                              |         |                              |          |

| #Accessions       | #Accession Details                                                                                                                                                                                                                                                                                               | Oligo   | Mutation                               | Impact   |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------|----------|
|                   | <a href="#">MF187244</a><br><a href="#">PV072424</a><br><a href="#">OK267581</a><br><a href="#">OW985828</a><br><a href="#">MF187254</a><br><a href="#">OK317691</a><br><a href="#">MH534912</a><br><a href="#">KU729066</a><br><a href="#">ON398751</a><br><a href="#">ON398731</a><br><a href="#">MF187255</a> | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-      |          |
| <a href="#">1</a> | <a href="#">KP674884</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | C1-, +8A                               |          |
| <a href="#">1</a> | <a href="#">MW403875</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | C1-, C2-, T11A                         |          |
| <a href="#">3</a> | <a href="#">AF441198</a><br><a href="#">MH430091</a><br><a href="#">PQ159244</a>                                                                                                                                                                                                                                 | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C4-, C5-                |          |
| <a href="#">1</a> | <a href="#">MF187281</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | T3C, C7T, A10T                         |          |
| <a href="#">1</a> | <a href="#">PQ159242</a>                                                                                                                                                                                                                                                                                         | Forward | G4A                                    | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A                                   |          |
| <a href="#">1</a> | <a href="#">KP674678</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | C7G, A10T                              |          |
| <a href="#">2</a> | <a href="#">GQ376081</a><br><a href="#">KX450870</a>                                                                                                                                                                                                                                                             | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-                          |          |
| <a href="#">1</a> | <a href="#">KU366485</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | C1-, C2-, +7C                          |          |
| <a href="#">2</a> | <a href="#">MF187241</a><br><a href="#">KP674524</a>                                                                                                                                                                                                                                                             | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C7T, A10T               |          |
| <a href="#">4</a> | <a href="#">KX450805</a><br><a href="#">ON262414</a><br><a href="#">KX450859</a><br><a href="#">KX450862</a>                                                                                                                                                                                                     | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8- |          |
| <a href="#">1</a> | <a href="#">MF187295</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C7G, A10T               |          |
| <a href="#">2</a> | <a href="#">MH534929</a><br><a href="#">MF187316</a>                                                                                                                                                                                                                                                             | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | +7C                                    |          |
| <a href="#">1</a> | <a href="#">KP675213</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | C7G, +9T                               |          |
| <a href="#">1</a> | <a href="#">KP675331</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A                                   | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | C7T, +9T                               |          |
| <a href="#">1</a> | <a href="#">MK343435</a>                                                                                                                                                                                                                                                                                         | Forward | +245T                                  | Detected |
|                   |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A                                   |          |
|                   |                                                                                                                                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-                          |          |

| #Accessions        | #Accession Details                                                                                           | Oligo   | Mutation                                                | Impact   |
|--------------------|--------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------|----------|
| <a href="#">2</a>  | <a href="#">KF305827</a><br><a href="#">FN394004</a>                                                         | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C1-, C2-, T3-, C4-                                      |          |
| <a href="#">1</a>  | <a href="#">OK267666</a>                                                                                     | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C1-, C2-, T3-, +9T                                      |          |
| <a href="#">19</a> | <a href="#">19</a>                                                                                           | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, A10T                 |          |
| <a href="#">1</a>  | <a href="#">MF187259</a>                                                                                     | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T11A                 |          |
| <a href="#">1</a>  | <a href="#">MF187318</a>                                                                                     | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C1-, A10T, +12T                                         |          |
| <a href="#">1</a>  | <a href="#">KP764985</a>                                                                                     | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C7T, T12-                                               |          |
| <a href="#">1</a>  | <a href="#">KP675361</a>                                                                                     | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C1-, C2-, C7G, A10T                                     |          |
| <a href="#">18</a> | <a href="#">18</a>                                                                                           | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-       |          |
| <a href="#">1</a>  | <a href="#">KP674864</a>                                                                                     | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | T3C, G6C                                                |          |
| <a href="#">1</a>  | <a href="#">PQ436339</a>                                                                                     | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | T12A                                                    |          |
| <a href="#">1</a>  | <a href="#">KP674734</a>                                                                                     | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C7G, T8C, A10T                                          |          |
| <a href="#">1</a>  | <a href="#">MF187319</a>                                                                                     | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, A10T                           |          |
| <a href="#">1</a>  | <a href="#">MT872532</a>                                                                                     | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11- | Detected |
| <a href="#">2</a>  | <a href="#">KP674765</a><br><a href="#">MF187323</a>                                                         | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C1-, C2-, T3-, A10T, T11A                               |          |
| <a href="#">1</a>  | <a href="#">MH534920</a>                                                                                     | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | +6G, A10T                                               |          |
| <a href="#">4</a>  | <a href="#">MF187314</a><br><a href="#">KP675401</a><br><a href="#">KP675105</a><br><a href="#">KP675357</a> | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, A10T                      |          |
| <a href="#">1</a>  | <a href="#">KP675031</a>                                                                                     | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | T3C, +8C, A10T                                          |          |
| <a href="#">43</a> | <a href="#">43</a>                                                                                           | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11- |          |
| <a href="#">1</a>  | <a href="#">PQ050362</a>                                                                                     | Probe   | C10A                                                    | Detected |
|                    |                                                                                                              | Reverse | T8C, A10T, +11A                                         |          |
| <a href="#">1</a>  | <a href="#">MW403869</a>                                                                                     | Probe   | C10A                                                    | Detected |

| #Accessions              | #Accession Details                                                                                    | Oligo   | Mutation                                    | Impact   |
|--------------------------|-------------------------------------------------------------------------------------------------------|---------|---------------------------------------------|----------|
|                          |                                                                                                       | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9- |          |
| <a href="#"><u>3</u></a> | <a href="#"><u>MF187306</u></a><br><a href="#"><u>MF187313</u></a><br><a href="#"><u>MF187282</u></a> | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | C1-, C2-, T3-, C4-, C7T, A10T               |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP675601</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | C1-, C2-, T3-, A10T, +11A                   |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP674748</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | T3C, G6C, A10-                              |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP674677</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | +5C G, A10T, T11A                           |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>MF187324</u></a>                                                                       | Forward | +245T                                       | Detected |
|                          |                                                                                                       | Probe   | C10A                                        |          |
|                          |                                                                                                       | Reverse | C1-, C2-, T3-, +9T                          |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>MF187296</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | C1-, C2-, T3-, C4-, C5-, A10T, T11A         |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>MF187222</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | C1-, C2-, T3-, +9T A, T11A                  |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP674819</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | C1-, C2-, T3-, A10-                         |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP675205</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | C1-, C2-, T3-, C7G, A10T, T11A              |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP675552</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | C1-, +7C C, A10T, T11A                      |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>MT772061</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | C1-, G6C, T8G, A10T                         |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP764991</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | C7G, A10T, T11A                             |          |
| <a href="#"><u>2</u></a> | <a href="#"><u>KC544491</u></a><br><a href="#"><u>MW465982</u></a>                                    | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | +6G, A10T, T11A                             |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP765020</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | C1-, +6G, T12-                              |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP674863</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | C1-, C2-, T8C, A10T, T11A                   |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP675358</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | C1-, C2-, +7C, A10T                         |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP675354</u></a>                                                                       | Probe   | C10A                                        | Detected |
|                          |                                                                                                       | Reverse | G6C, +8C, A10C                              |          |
| <a href="#"><u>1</u></a> | <a href="#"><u>ON016556</u></a>                                                                       | Forward | G11A                                        | Detected |
|                          |                                                                                                       | Probe   | C10A                                        |          |
|                          |                                                                                                       | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-           |          |

| #Accessions              | #Accession Details                                                      | Oligo   | Mutation                                          | Impact       |
|--------------------------|-------------------------------------------------------------------------|---------|---------------------------------------------------|--------------|
| <a href="#"><u>1</u></a> | <a href="#"><u>MF187293</u></a>                                         | Probe   | C10A                                              | Detected     |
|                          |                                                                         | Reverse | C1-, C2-, T3-, A10T                               |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP675349</u></a>                                         | Probe   | C10A                                              | Detected     |
|                          |                                                                         | Reverse | C1-, C2-, T8C, A10C, +11A                         |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>MF187298</u></a>                                         | Probe   | C10A                                              | Detected     |
|                          |                                                                         | Reverse | C1-, C2-, T3-, C4-, A10T, T11A                    |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>PQ651729</u></a>                                         | Probe   | C10A                                              | Detected     |
|                          |                                                                         | Reverse | C1-, C2-, T3-, C4-, C5-, T11G                     |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>KY106478</u></a>                                         | Forward | G11-                                              | Detected     |
|                          |                                                                         | Probe   | C10A                                              |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>MT731456</u></a>                                         | Forward | T20-                                              | Not Detected |
|                          |                                                                         | Probe   | C10A                                              |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>FN428886</u></a>                                         | Forward | T20-                                              | Not Detected |
|                          |                                                                         | Probe   | C10A, G15-                                        |              |
| <a href="#"><u>3</u></a> | <a href="#"><u>MF187299</u><br/><u>MF187311</u><br/><u>KP674962</u></a> | Probe   | C10A                                              | Not Detected |
|                          |                                                                         | Reverse | C1-, C2-, T3-, A10T, +12T                         |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>MF187258</u></a>                                         | Probe   | C10A                                              | Not Detected |
|                          |                                                                         | Reverse | C1-, G6C, A10T, +12A                              |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>OK267705</u></a>                                         | Probe   | C10A, +20C                                        | Not Detected |
|                          |                                                                         | Reverse | +7C                                               |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP675317</u></a>                                         | Probe   | C10A                                              | Not Detected |
|                          |                                                                         | Reverse | C1-, C2-, T3-, T12-                               |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>ON262408</u></a>                                         | Probe   | C10A                                              | Not Detected |
|                          |                                                                         | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, T12A |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>MF187300</u></a>                                         | Probe   | C10A                                              | Not Detected |
|                          |                                                                         | Reverse | T3C, A10T, +12A T                                 |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>KP675348</u></a>                                         | Probe   | C10A                                              | Not Detected |
|                          |                                                                         | Reverse | T3C, T9C, T12-                                    |              |
| <a href="#"><u>2</u></a> | <a href="#"><u>KP674716</u><br/><u>KP674717</u></a>                     | Probe   | C10A                                              | Not Detected |
|                          |                                                                         | Reverse | C1-, C2-, T3-, C4-, C5-, T12-                     |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>AB467297</u></a>                                         | Probe   | C10G, +9A                                         | Not Detected |
|                          |                                                                         | Reverse | +6G                                               |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>AB467296</u></a>                                         | Probe   | C10A                                              | Not Detected |
|                          |                                                                         | Reverse | C1-, C2-, T3-, G6C, T12-                          |              |
| <a href="#"><u>1</u></a> | <a href="#"><u>MW403870</u></a>                                         | Probe   | C10A                                              | Not Detected |
|                          |                                                                         | Reverse | C1-, C2-, T3-, A10T, +12A T                       |              |
| <a href="#"><u>2</u></a> | <a href="#"><u>MF187220</u><br/><u>MK300696</u></a>                     | Probe   | C10A                                              | Not Detected |
|                          |                                                                         | Reverse | C1-, C2-, T3-, C7T, A10T, T12A                    |              |

| #Accessions       | #Accession Details                                                                                                                                                                               | Oligo   | Mutation                                                | Impact       |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------|--------------|
| <a href="#">4</a> | <a href="#">OP526917</a><br><a href="#">KP674856</a><br><a href="#">MZ255116</a><br><a href="#">ON398732</a>                                                                                     | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, T12-                      |              |
| <a href="#">1</a> | <a href="#">OM523867</a>                                                                                                                                                                         | Probe   | C9-, G11A                                               | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | C1-, C5G                                                |              |
| <a href="#">1</a> | <a href="#">MZ255115</a>                                                                                                                                                                         | Probe   | C10A, T13G                                              | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, G6C, A10T                                |              |
| <a href="#">1</a> | <a href="#">KP674972</a>                                                                                                                                                                         | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | C1-, A10T, T11A, T21-                                   |              |
| <a href="#">1</a> | <a href="#">KP675428</a>                                                                                                                                                                         | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | G6C, A10T, +12T                                         |              |
| <a href="#">1</a> | <a href="#">MT548914</a>                                                                                                                                                                         | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | A10T, G13A, +15T                                        |              |
| <a href="#">1</a> | <a href="#">OM523871</a>                                                                                                                                                                         | Probe   | C9-, G11A                                               | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | C1-, C2-                                                |              |
| <a href="#">1</a> | <a href="#">MT548912</a>                                                                                                                                                                         | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | +6G, A10T, G13A                                         |              |
| <a href="#">1</a> | <a href="#">PQ651730</a>                                                                                                                                                                         | Forward | T21G                                                    | Not Detected |
|                   |                                                                                                                                                                                                  | Probe   | C10A                                                    |              |
|                   |                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C4-, T11A                                |              |
| <a href="#">1</a> | <a href="#">KP764951</a>                                                                                                                                                                         | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T11A, A16-           |              |
| <a href="#">1</a> | <a href="#">MF187261</a>                                                                                                                                                                         | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C4-, C7T, A10T, T12A                     |              |
| <a href="#">2</a> | <a href="#">MF187223</a><br><a href="#">MF187253</a>                                                                                                                                             | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T12A                 |              |
| <a href="#">2</a> | <a href="#">MF187284</a><br><a href="#">MF187287</a>                                                                                                                                             | Probe   | C10A, G11C                                              | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, A10T                 |              |
| <a href="#">7</a> | <a href="#">MF187247</a><br><a href="#">MF187245</a><br><a href="#">MF187231</a><br><a href="#">MK793257</a><br><a href="#">MK793235</a><br><a href="#">KC544489</a><br><a href="#">MK793234</a> | Probe   | C9-, G11A                                               | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11- |              |
| <a href="#">1</a> | <a href="#">MK793251</a>                                                                                                                                                                         | Probe   | C9-, G11A                                               | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C4-, T12-                                |              |
| <a href="#">1</a> | <a href="#">OQ708346</a>                                                                                                                                                                         | Probe   | C10A, C22A, C23A                                        | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | +5T, T12-                                               |              |
| <a href="#">1</a> | <a href="#">KP675332</a>                                                                                                                                                                         | Probe   | C10A, G11C                                              | Not Detected |
|                   |                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, T12-                      |              |

| #Accessions       | #Accession Details                                                                                                                       | Oligo   | Mutation                                                | Impact       |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------|--------------|
| <a href="#">5</a> | <a href="#">MF187279</a><br><a href="#">KM065474</a><br><a href="#">MK793231</a><br><a href="#">MK026347</a><br><a href="#">ON853557</a> | Probe   | C10A, G11C                                              | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11- |              |
| <a href="#">1</a> | <a href="#">MK793248</a>                                                                                                                 | Probe   | C9-, G11A                                               | Not Detected |
|                   |                                                                                                                                          | Reverse | T9A, A10-, T11-                                         |              |
| <a href="#">1</a> | <a href="#">MF187315</a>                                                                                                                 | Probe   | C10A, +14G                                              | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T3-, A10T, T11A                               |              |
| <a href="#">1</a> | <a href="#">MF187260</a>                                                                                                                 | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, C2-, +6T, A10T, +12A                               |              |
| <a href="#">1</a> | <a href="#">KP765022</a>                                                                                                                 | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, A10T, T15-           |              |
| <a href="#">1</a> | <a href="#">KP765019</a>                                                                                                                 | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, T8C, A10T, G13-, +17A                              |              |
| <a href="#">1</a> | <a href="#">OM523868</a>                                                                                                                 | Forward | G11A                                                    | Not Detected |
|                   |                                                                                                                                          | Probe   | C10A, G11C                                              |              |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-                       |              |
| <a href="#">1</a> | <a href="#">OK584821</a>                                                                                                                 | Probe   | C10A, +17T                                              | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11- |              |
| <a href="#">1</a> | <a href="#">OR507587</a>                                                                                                                 | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, G6C, T8C, A10T, G13T, +16A                         |              |
| <a href="#">2</a> | <a href="#">MF187235</a><br><a href="#">MF187272</a>                                                                                     | Probe   | C9-, G11A                                               | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, A10T                 |              |
| <a href="#">1</a> | <a href="#">PV536169</a>                                                                                                                 | Probe   | C10A                                                    | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T12A, G13C, A14-, +17A                        |              |
| <a href="#">1</a> | <a href="#">MK793245</a>                                                                                                                 | Probe   | C10A, G11C                                              | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-       |              |
| <a href="#">1</a> | <a href="#">KP764975</a>                                                                                                                 | Probe   | C10A, T18G                                              | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T11A, T20C      |              |
| <a href="#">1</a> | <a href="#">OM523866</a>                                                                                                                 | Probe   | C10A, +20C                                              | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-                            |              |
| <a href="#">1</a> | <a href="#">OR378578</a>                                                                                                                 | Forward | T21C                                                    | Not Detected |
|                   |                                                                                                                                          | Probe   | C10A                                                    |              |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, T12-                      |              |
| <a href="#">1</a> | <a href="#">MF187246</a>                                                                                                                 | Forward | A17T                                                    | Not Detected |
|                   |                                                                                                                                          | Probe   | C10A, G11C                                              |              |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11- |              |
| <a href="#">1</a> | <a href="#">MT659657</a>                                                                                                                 | Probe   | C9-, G11A                                               | Not Detected |
|                   |                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-                  |              |

| #Accessions       | #Accession Details       | Oligo   | Mutation                                          | Impact       |
|-------------------|--------------------------|---------|---------------------------------------------------|--------------|
| <a href="#">1</a> | <a href="#">MF187269</a> | Probe   | C10A, +21G                                        | Not Detected |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, A10T           |              |
| <a href="#">1</a> | <a href="#">MF187307</a> | Forward | +245T                                             | Not Detected |
|                   |                          | Probe   | C10A, +20C                                        |              |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, A10T, +11A                    |              |
| <a href="#">1</a> | <a href="#">MF187288</a> | Probe   | C10A, G17A                                        | Not Detected |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, A10T                     |              |
| <a href="#">1</a> | <a href="#">ON391679</a> | Probe   | C10A, +14G                                        | Not Detected |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T12C           |              |
| <a href="#">1</a> | <a href="#">PQ892288</a> | Probe   | +10A                                              | Not Detected |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10- |              |
| <a href="#">1</a> | <a href="#">MF187321</a> | Forward | +250T                                             | Not Detected |
|                   |                          | Probe   | C10A, +14G                                        |              |
|                   |                          | Reverse | C1-, C2-, T3-, +9T                                |              |
| <a href="#">1</a> | <a href="#">MF187305</a> | Forward | +245T, +251T                                      | Not Detected |
|                   |                          | Probe   | C10A, G11T                                        |              |
|                   |                          | Reverse | C1-, C2-, T3-, A10T, T11A                         |              |
| <a href="#">1</a> | <a href="#">KY102103</a> | Forward | T20-                                              | Not Detected |
|                   |                          | Probe   | C10A                                              |              |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10- |              |
| <a href="#">1</a> | <a href="#">OK267585</a> | Probe   | C9-, G11A                                         | Not Detected |
|                   |                          | Reverse | C1-, C2-, T3-, C7T, T12-, T21-                    |              |
| <a href="#">1</a> | <a href="#">PP801244</a> | Forward | C2G                                               | Not Detected |
|                   |                          | Probe   | C10A, G15A                                        |              |
|                   |                          | Reverse | T8G                                               |              |
| <a href="#">1</a> | <a href="#">MF187257</a> | Probe   | C10A                                              | Not Detected |
|                   |                          | Reverse | C1-, C2-, T3-, G6C, A10T, +12A                    |              |
| <a href="#">1</a> | <a href="#">MZ375507</a> | Forward | G1A                                               | Not Detected |
|                   |                          | Probe   | C10A, G24A                                        |              |
|                   |                          | Reverse | C4T, C7T                                          |              |
| <a href="#">1</a> | <a href="#">KP674599</a> | Forward | G19T                                              | Not Detected |
|                   |                          | Probe   | C10A, G11A, C22T                                  |              |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10- |              |
| <a href="#">1</a> | <a href="#">MW403873</a> | Forward | +252C                                             | Not Detected |
|                   |                          | Probe   | C10A, +23G                                        |              |
|                   |                          | Reverse | C1-, C2-, +9T A, C19A                             |              |
| <a href="#">1</a> | <a href="#">MF187236</a> | Forward | G11C                                              | Not Detected |
|                   |                          | Probe   | A5C, C10A, T13G                                   |              |
|                   |                          | Reverse | C1-, C2-, T3-, G6C, A10T, T17-                    |              |

| #Accessions       | #Accession Details       | Oligo   | Mutation                                                            | Impact       |
|-------------------|--------------------------|---------|---------------------------------------------------------------------|--------------|
| <a href="#">1</a> | <a href="#">MW403868</a> | Probe   | A7T, T8C, C9A, C10A, G12T, +14G                                     | Not Detected |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, +19C                        |              |
| <a href="#">1</a> | <a href="#">MF187294</a> | Forward | G11A, A17T                                                          | Not Detected |
|                   |                          | Probe   | C10A, G11C                                                          |              |
|                   |                          | Reverse | C1-, +6G, A10T, T11A                                                |              |
| <a href="#">1</a> | <a href="#">MF187233</a> | Forward | G4A                                                                 | Not Detected |
|                   |                          | Probe   | A5C, G15A                                                           |              |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, A10T, T17-                       |              |
| <a href="#">1</a> | <a href="#">PQ651732</a> | Probe   | C10A, T13C                                                          | Not Detected |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, G13C, T21G                       |              |
| <a href="#">1</a> | <a href="#">MW741897</a> | Probe   | C10A                                                                | Not Detected |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, A10T, G13A                                 |              |
| <a href="#">1</a> | <a href="#">MF187273</a> | Forward | G1A                                                                 | Not Detected |
|                   |                          | Probe   | A5-, C10A, C22T                                                     |              |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, A10C, G13T, T17-                 |              |
| <a href="#">1</a> | <a href="#">KP764953</a> | Forward | G4A, G8A                                                            | Not Detected |
|                   |                          | Probe   | C10G, +9A, +17T                                                     |              |
|                   |                          | Reverse | C1-, C2-, +9T, +18G                                                 |              |
| <a href="#">1</a> | <a href="#">MF187271</a> | Forward | G1A, T21C                                                           | Not Detected |
|                   |                          | Probe   | A7-, T8-, C9T, G11A                                                 |              |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-             |              |
| <a href="#">1</a> | <a href="#">KP674600</a> | Forward | G1C, G19T                                                           | Not Detected |
|                   |                          | Probe   | C10A, G11A, C22G                                                    |              |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, G13T             |              |
| <a href="#">1</a> | <a href="#">KU936094</a> | Forward | T20-                                                                | Not Detected |
|                   |                          | Probe   | C2T, A7-, T8-, C9T, G11A, G17-, T18-, C22T                          |              |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, A16T, T17A |              |
| <a href="#">1</a> | <a href="#">PQ159254</a> | Probe   | A5C, C10A, G11A, T13G                                               | Not Detected |
| <a href="#">1</a> | <a href="#">MF187280</a> | Forward | A7-                                                                 | Not Detected |
|                   |                          | Probe   | C10A, G11A, G15-                                                    |              |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-             |              |
| <a href="#">1</a> | <a href="#">MF187232</a> | Forward | G11C, +244C                                                         | Not Detected |
|                   |                          | Probe   | T3C, A5C, G11A, T18G, G24C, T26C                                    |              |
|                   |                          | Reverse | C1-, C2-, T17G, C19T                                                |              |
| <a href="#">1</a> | <a href="#">OM523872</a> | Forward | A17T                                                                | Not Detected |
|                   |                          | Probe   | C10A, T18G, +9A, +24C                                               |              |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-             |              |
| <a href="#">1</a> | <a href="#">MF187291</a> | Forward | A7C                                                                 | Not Detected |
|                   |                          |         |                                                                     |              |

| #Accessions       | #Accession Details                                   | Oligo   | Mutation                                                      | Impact       |
|-------------------|------------------------------------------------------|---------|---------------------------------------------------------------|--------------|
|                   |                                                      | Probe   | C10A, +3C, +9A, +13A, +20C                                    |              |
|                   |                                                      | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, +14A                       |              |
| <a href="#">1</a> | <a href="#">MF187262</a>                             | Probe   | C1G, T3G, A5-, C9G, C22G, +20G                                | Not Detected |
|                   |                                                      | Reverse | C1-, C2-, G6C, T12-, T17-                                     |              |
| <a href="#">1</a> | <a href="#">MF187266</a>                             | Forward | A3-                                                           | Not Detected |
|                   |                                                      | Probe   | C1G, T3G, C9G, C10A, C21G, C23G, +2GT, +8G, +20GC             |              |
|                   |                                                      | Reverse | C1-, C2-, T3-, T11A, +13C, G18-                               |              |
| <a href="#">1</a> | <a href="#">MF187303</a>                             | Forward | G4C, G8C, G11A, A18T                                          | Not Detected |
|                   |                                                      | Probe   | C1G, A5T, A6C, C10T, G11C, A14G                               |              |
|                   |                                                      | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, C19T |              |
| <a href="#">1</a> | <a href="#">MF187249</a>                             | Forward | A3-, A7-, G19-                                                | Not Detected |
|                   |                                                      | Probe   | A7-, T8-, C9T, G11A                                           |              |
|                   |                                                      | Reverse | C1-, T9C, A10T, T11A, T21-                                    |              |
| <a href="#">1</a> | <a href="#">MF187267</a>                             | Forward | +241G                                                         | Not Detected |
|                   |                                                      | Probe   | C1G, T3-, C4G, C9G, C10A, +21G                                |              |
|                   |                                                      | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, G13C, G18C       |              |
| <a href="#">1</a> | <a href="#">OP375709</a>                             | Forward | G4-, A7-, A18-, G19-, T20G                                    | Not Detected |
|                   |                                                      | Probe   | C4A, C10A, G11A, T13A, G17-, T18-, A20T                       |              |
|                   |                                                      | Reverse | C7G, T12-, T21-                                               |              |
| <a href="#">1</a> | <a href="#">MF187292</a>                             | Forward | G4A, A7-, C13T, T14C, A17T                                    | Not Detected |
|                   |                                                      | Probe   | A5-, C10A                                                     |              |
|                   |                                                      | Reverse | T8C, A10T, T11A, T21A                                         |              |
| <a href="#">1</a> | <a href="#">MF187265</a>                             | Forward | G1-, C2-, A7-                                                 | Not Detected |
|                   |                                                      | Probe   | C1G, C4G, A5C, C9G, G11A, G17T, T19A, A20G, C22G              |              |
|                   |                                                      | Reverse | C1-, C2-, G6C, T12G, G13C, T17-                               |              |
| <a href="#">1</a> | <a href="#">MF187264</a>                             | Forward | +244G                                                         | Not Detected |
|                   |                                                      | Probe   | C1G, C4G, A5C, C9G, G11A, C21G, +20G                          |              |
|                   |                                                      | Reverse | +7C C T, T12G, G13C                                           |              |
| <a href="#">1</a> | <a href="#">JX406277</a>                             | Forward | G19-                                                          | Not Detected |
|                   |                                                      | Probe   | A5-, C10A, G24-                                               |              |
|                   |                                                      | Reverse | C1-, C2-, T3-, A10T, T11A                                     |              |
| <a href="#">1</a> | <a href="#">MF187285</a>                             | Forward | G8-, T20-                                                     | Not Detected |
|                   |                                                      | Probe   | C10A, G15-                                                    |              |
|                   |                                                      | Reverse | C1-, A10-, T11-, T21-                                         |              |
| <a href="#">1</a> | <a href="#">MF187286</a>                             | Forward | G4A, A7-, A17-                                                | Not Detected |
|                   |                                                      | Probe   | A5-, C10A, T19A, A20C                                         |              |
|                   |                                                      | Reverse | C1-, C2-, T3-, C4-, T12-, T17-                                |              |
| <a href="#">2</a> | <a href="#">PQ436336</a><br><a href="#">PQ436338</a> | Forward | C2A, A9T, A17C                                                | Not Detected |
|                   |                                                      | Probe   | C1A, T8C, C10A, G11A, G16A, C25G                              |              |

| #Accessions        | #Accession Details                                                                                                                                                                                                                                                                                                                                                       | Oligo   | Mutation                                                                        | Impact                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------|-----------------------------|
| <a href="#">1</a>  | <a href="#">MF187251</a>                                                                                                                                                                                                                                                                                                                                                 | Forward | A7-                                                                             | Not Detected                |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | A5-, C10A, G17T, T19A, A20C                                                     |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | C1-, G6C, A10T, T17-, T21-, A22-                                                |                             |
| <a href="#">1</a>  | <a href="#">MF187290</a>                                                                                                                                                                                                                                                                                                                                                 | Forward | G1C, G4A, G8A, G11T, G19T                                                       | Not Detected                |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | A7T, C10A, G17T, A20C, C25-                                                     |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, A10T, C19G                                   |                             |
| <a href="#">1</a>  | <a href="#">MF187238</a>                                                                                                                                                                                                                                                                                                                                                 | Forward | A7-, A17-                                                                       | Not Detected                |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | A7-, T8-, C9T, G11A, T18-                                                       |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | C1-, C2-, T3-, T12-, T17-                                                       |                             |
| <a href="#">1</a>  | <a href="#">MF187239</a>                                                                                                                                                                                                                                                                                                                                                 | Forward | G4A, A7-, A17-                                                                  | Not Detected                |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | C10A, T18-                                                                      |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T11A, T21-, A22-                             |                             |
| <a href="#">1</a>  | <a href="#">MF196234</a>                                                                                                                                                                                                                                                                                                                                                 | Forward | A3T, G8A, G11C, T14C, A18C, G19T, +245A                                         | Not Detected                |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | C1T, A6C, A7C, C10A, G11A, G12A, A14C, G15A, G24T, G27C, +20G                   |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T17A, G18A, C19G       |                             |
| <a href="#">1</a>  | <a href="#">KY106476</a>                                                                                                                                                                                                                                                                                                                                                 | Probe   | C10A, G12A                                                                      | Not Detected                |
| <a href="#">1</a>  | <a href="#">KY106467</a>                                                                                                                                                                                                                                                                                                                                                 | Forward | T21G                                                                            | Not Detected                |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | C10A, G17-                                                                      |                             |
| <a href="#">19</a> | <a href="#">19</a>                                                                                                                                                                                                                                                                                                                                                       | Probe   | C10A                                                                            | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-                   |                             |
| <a href="#">21</a> | <a href="#">21</a>                                                                                                                                                                                                                                                                                                                                                       | Probe   | C10A                                                                            | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-       |                             |
| <a href="#">13</a> | <a href="#">KX450845</a><br><a href="#">KX450839</a><br><a href="#">KX450822</a><br><a href="#">KX450829</a><br><a href="#">KX450857</a><br><a href="#">PP069311</a><br><a href="#">KX450828</a><br><a href="#">MH729032</a><br><a href="#">PP994490</a><br><a href="#">OW988787</a><br><a href="#">KX450834</a><br><a href="#">KX450842</a><br><a href="#">MH699024</a> | Probe   | C10A                                                                            | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-, T15- |                             |
| <a href="#">7</a>  | <a href="#">MN699325</a><br><a href="#">OR095859</a><br><a href="#">OW988771</a><br><a href="#">MW824458</a><br><a href="#">OW988775</a><br><a href="#">KU987863</a><br><a href="#">OW988753</a>                                                                                                                                                                         | Probe   | C10A                                                                            | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-             |                             |
| <a href="#">68</a> | <a href="#">68</a>                                                                                                                                                                                                                                                                                                                                                       | Probe   | C10A                                                                            | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | Reverse Missing                                                                 |                             |
| <a href="#">1</a>  | <a href="#">OW988785</a>                                                                                                                                                                                                                                                                                                                                                 | Probe   | A6C, C10A                                                                       | limited coverage            |

| #Accessions       | #Accession Details                                                                                           | Oligo   | Mutation                                                                              | Impact                      |
|-------------------|--------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------|-----------------------------|
|                   |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-                         | (excluded)                  |
| <a href="#">3</a> | <a href="#">MT652641</a><br><a href="#">ON631238</a><br><a href="#">KX450825</a>                             | Probe   | C10A                                                                                  | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-, T15-, A16- |                             |
| <a href="#">1</a> | <a href="#">KP878243</a>                                                                                     | Probe   | C10A                                                                                  | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T17-                         |                             |
| <a href="#">2</a> | <a href="#">MK793243</a><br><a href="#">MK793247</a>                                                         | Probe   | C10A, G11C                                                                            | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-, T15-, A16- |                             |
| <a href="#">1</a> | <a href="#">MT773370</a>                                                                                     | Probe   | C9-, G11A                                                                             | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-             |                             |
| <a href="#">1</a> | <a href="#">MK793244</a>                                                                                     | Probe   | C10A, G11C                                                                            | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-             |                             |
| <a href="#">1</a> | <a href="#">KY906196</a>                                                                                     | Forward | A17T                                                                                  | limited coverage (excluded) |
|                   |                                                                                                              | Probe   | A5-, C10A                                                                             |                             |
|                   |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-             |                             |
| <a href="#">1</a> | <a href="#">MT872533</a>                                                                                     | Forward | +245T                                                                                 | limited coverage (excluded) |
|                   |                                                                                                              | Probe   | C10A, +20C                                                                            |                             |
|                   |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-                         |                             |
| <a href="#">4</a> | <a href="#">MN788444</a><br><a href="#">MK027132</a><br><a href="#">MK027126</a><br><a href="#">OR647607</a> | Probe   | C9-, G11A                                                                             | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | Reverse Missing                                                                       |                             |
| <a href="#">2</a> | <a href="#">PQ892287</a><br><a href="#">PV739607</a>                                                         | Probe   | C10A, G11C                                                                            | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | Reverse Missing                                                                       |                             |
| <a href="#">1</a> | <a href="#">KP674749</a>                                                                                     | Probe   | C10A, G11A                                                                            | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-                         |                             |
| <a href="#">1</a> | <a href="#">ON262421</a>                                                                                     | Probe   | C10A                                                                                  | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-, C19-       |                             |
| <a href="#">1</a> | <a href="#">MF187250</a>                                                                                     | Probe   | A7-, T8-, C9T, G11A                                                                   | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-                         |                             |
| <a href="#">1</a> | <a href="#">PP906204</a>                                                                                     | Probe   | C10A, C22T                                                                            | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | Reverse Missing                                                                       |                             |
| <a href="#">1</a> | <a href="#">PP218381</a>                                                                                     | Probe   | C10A                                                                                  | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-, T21-, A22- |                             |
| <a href="#">1</a> | <a href="#">KP131711</a>                                                                                     | Probe   | C10A, T26-, G27-                                                                      | limited coverage (excluded) |
|                   |                                                                                                              | Reverse | Reverse Missing                                                                       |                             |
| <a href="#">1</a> | <a href="#">KY102105</a>                                                                                     | Forward | T20-, +243T                                                                           | limited coverage (excluded) |
|                   |                                                                                                              | Probe   | C10A, +2T                                                                             |                             |

| #Accessions       | #Accession Details                                                                                                                                                   | Oligo   | Mutation                                                                        | Impact                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------|-----------------------------|
|                   |                                                                                                                                                                      | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-             |                             |
| <a href="#">1</a> | <a href="#">OP375529</a>                                                                                                                                             | Forward | T16A                                                                            | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | C10A, G11A                                                                      |                             |
|                   |                                                                                                                                                                      | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-             |                             |
| <a href="#">3</a> | <a href="#">OR647602</a><br><a href="#">KX273821</a><br><a href="#">OR647617</a>                                                                                     | Probe   | C10A, C25-, T26-, G27-                                                          | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                 |                             |
| <a href="#">1</a> | <a href="#">JQ292918</a>                                                                                                                                             | Probe   | A5T, C10A, T18C                                                                 | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                 |                             |
| <a href="#">2</a> | <a href="#">ON479775</a><br><a href="#">PV739604</a>                                                                                                                 | Probe   | A5-, C10A, G11C                                                                 | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                 |                             |
| <a href="#">1</a> | <a href="#">MZ047479</a>                                                                                                                                             | Probe   | C10G, +9A                                                                       | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                 |                             |
| <a href="#">1</a> | <a href="#">OP375519</a>                                                                                                                                             | Probe   | C9-, G11A                                                                       | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-             |                             |
| <a href="#">2</a> | <a href="#">MZ677152</a><br><a href="#">PP905129</a>                                                                                                                 | Probe   | C10A, G24-, C25-, T26-, G27-                                                    | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                 |                             |
| <a href="#">1</a> | <a href="#">OM523870</a>                                                                                                                                             | Probe   | C10A, +20C, +25T                                                                | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-, T15- |                             |
| <a href="#">1</a> | <a href="#">PP784697</a>                                                                                                                                             | Forward | T15C                                                                            | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | C10A                                                                            |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                 |                             |
| <a href="#">3</a> | <a href="#">MT374235</a><br><a href="#">MG241517</a><br><a href="#">OK073651</a>                                                                                     | Probe   | C10A, C23-, G24-, C25-, T26-, G27-                                              | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                 |                             |
| <a href="#">1</a> | <a href="#">OW986225</a>                                                                                                                                             | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-             | limited coverage (excluded) |
| <a href="#">2</a> | <a href="#">KY102111</a><br><a href="#">KY102109</a>                                                                                                                 | Probe   | C10A, G17-, T18-                                                                | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                 |                             |
| <a href="#">6</a> | <a href="#">OR859822</a><br><a href="#">OR859774</a><br><a href="#">OR859773</a><br><a href="#">OR859778</a><br><a href="#">OR859831</a><br><a href="#">AJ293307</a> | Probe   | C10A, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                      | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                 |                             |
| <a href="#">2</a> | <a href="#">OK267980</a><br><a href="#">OK267845</a>                                                                                                                 | Probe   | C10A, G17-, T18-, C25-, T26-, G27-                                              | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                 |                             |
| <a href="#">1</a> | <a href="#">OK267758</a>                                                                                                                                             | Probe   | C10A, T13G, T19A, C23-, G24-, C25-, T26-, G27-                                  | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                 |                             |
| <a href="#">1</a> | <a href="#">OK268006</a>                                                                                                                                             | Probe   | C10A, T18-, C25-, T26-, G27-                                                    | limited coverage            |

| #Accessions        | #Accession Details                                                                                                                                                                                                                                                                                                                           | Oligo   | Mutation                                                               | Impact                      |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------|-----------------------------|
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        | (excluded)                  |
| <a href="#">7</a>  | <a href="#">OR859775</a><br><a href="#">OW988769</a><br><a href="#">JN391276</a><br><a href="#">KU729056</a><br><a href="#">JN391278</a><br><a href="#">JN391274</a><br><a href="#">JN391280</a>                                                                                                                                             | Probe   | C10A, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-       | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        |                             |
| <a href="#">1</a>  | <a href="#">PQ159248</a>                                                                                                                                                                                                                                                                                                                     | Forward | T20-                                                                   | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                              | Probe   | C10A, C25-, T26-, G27-                                                 |                             |
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        |                             |
| <a href="#">1</a>  | <a href="#">OK267800</a>                                                                                                                                                                                                                                                                                                                     | Probe   | C10A, G17T, A20C, C23-, G24-, C25-, T26-, G27-                         | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        |                             |
| <a href="#">1</a>  | <a href="#">OK267707</a>                                                                                                                                                                                                                                                                                                                     | Probe   | C10A, T18G, C22T, C25-, T26-, G27-                                     | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        |                             |
| <a href="#">10</a> | <a href="#">KP068733</a><br><a href="#">OR647610</a><br><a href="#">KP068738</a><br><a href="#">KP068734</a><br><a href="#">KP068740</a><br><a href="#">KP068736</a><br><a href="#">KP068731</a><br><a href="#">KP068739</a><br><a href="#">KP068732</a><br><a href="#">KP068737</a>                                                         | Probe   | C10A, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                   | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        |                             |
| <a href="#">2</a>  | <a href="#">OK268001</a><br><a href="#">OK267975</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A, T18-, G24-, C25-, T26-, G27-                                     | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        |                             |
| <a href="#">2</a>  | <a href="#">KU729062</a><br><a href="#">OK073653</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A, C22-, C23-, G24-, C25-, T26-, G27-                               | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        |                             |
| <a href="#">12</a> | <a href="#">OR859818</a><br><a href="#">OR859794</a><br><a href="#">OR859776</a><br><a href="#">OR859815</a><br><a href="#">LC388880</a><br><a href="#">OW985249</a><br><a href="#">KY102107</a><br><a href="#">PQ606356</a><br><a href="#">OK267793</a><br><a href="#">MW358896</a><br><a href="#">LC317502</a><br><a href="#">OK073654</a> | Probe   | C10A, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27- | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        |                             |
| <a href="#">1</a>  | <a href="#">KY562566</a>                                                                                                                                                                                                                                                                                                                     | Probe   | C9-, G11A, +24C                                                        | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        |                             |
| <a href="#">1</a>  | <a href="#">KY102106</a>                                                                                                                                                                                                                                                                                                                     | Probe   | C10A, G17-, T18-, +23A                                                 | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        |                             |
| <a href="#">1</a>  | <a href="#">OK267898</a>                                                                                                                                                                                                                                                                                                                     | Probe   | C10A, G17-, T18-, G24C, G27-                                           | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        |                             |
| <a href="#">1</a>  | <a href="#">OK267663</a>                                                                                                                                                                                                                                                                                                                     | Probe   | C10G, T18G, G24-, C25-, T26-, G27-, +9A                                | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                        |                             |

| #Accessions        | #Accession Details                                                                                                                                                                                                                                                                                               | Oligo                       | Mutation                                                                                                          | Impact                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <a href="#">10</a> | <a href="#">OK267884</a><br><a href="#">LC813628</a><br><a href="#">OK267945</a><br><a href="#">OK267478</a><br><a href="#">OK267608</a><br><a href="#">LT577611</a><br><a href="#">OK267913</a><br><a href="#">OK267789</a><br><a href="#">OK267764</a><br><a href="#">OK267952</a>                             | Probe<br>Reverse            | C10A, G17-, T18-, G24-, C25-, T26-, G27-<br>Reverse Missing                                                       | limited coverage (excluded) |
| <a href="#">1</a>  | <a href="#">OK267880</a>                                                                                                                                                                                                                                                                                         | Probe<br>Reverse            | G15-, G24-, C25-, T26-, G27-, +10AG<br>Reverse Missing                                                            | limited coverage (excluded) |
| <a href="#">1</a>  | <a href="#">PQ159249</a>                                                                                                                                                                                                                                                                                         | Forward<br>Probe<br>Reverse | T20-<br>C10A, C21A, G24-, C25-, T26-, G27-<br>Reverse Missing                                                     | limited coverage (excluded) |
| <a href="#">1</a>  | <a href="#">MT876146</a>                                                                                                                                                                                                                                                                                         | Probe<br>Reverse            | C10A, G16C<br>Reverse Missing                                                                                     | limited coverage (excluded) |
| <a href="#">1</a>  | <a href="#">OK267861</a>                                                                                                                                                                                                                                                                                         | Probe<br>Reverse            | C10A, T18-, G24-, C25-, T26-, G27-, +7T<br>Reverse Missing                                                        | limited coverage (excluded) |
| <a href="#">4</a>  | <a href="#">LT577612</a><br><a href="#">PQ774259</a><br><a href="#">OW988788</a><br><a href="#">OP752433</a>                                                                                                                                                                                                     | Probe<br>Reverse            | C10A, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-<br>Reverse Missing                   | limited coverage (excluded) |
| <a href="#">1</a>  | <a href="#">OK267941</a>                                                                                                                                                                                                                                                                                         | Forward<br>Probe<br>Reverse | +241C<br>C10A, T18-, G24-, C25-, T26-, G27-<br>Reverse Missing                                                    | limited coverage (excluded) |
| <a href="#">11</a> | <a href="#">OR859801</a><br><a href="#">OR859820</a><br><a href="#">OR647599</a><br><a href="#">KJ451710</a><br><a href="#">OR859824</a><br><a href="#">OW988759</a><br><a href="#">KU961980</a><br><a href="#">LC639857</a><br><a href="#">OR647621</a><br><a href="#">MW187299</a><br><a href="#">PQ330914</a> | Probe<br>Reverse            | C10A, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-<br>Reverse Missing | limited coverage (excluded) |
| <a href="#">2</a>  | <a href="#">KP675101</a><br><a href="#">KP675102</a>                                                                                                                                                                                                                                                             | Forward<br>Probe<br>Reverse | T20-<br>C10A, G16-, G17-, T18-, T26-, G27-<br>Reverse Missing                                                     | limited coverage (excluded) |
| <a href="#">1</a>  | <a href="#">OK267598</a>                                                                                                                                                                                                                                                                                         | Probe<br>Reverse            | C10G, T18G, A20T, G24-, C25-, T26-, G27-, +9A<br>Reverse Missing                                                  | limited coverage (excluded) |
| <a href="#">4</a>  | <a href="#">KP674816</a><br><a href="#">KP675134</a><br><a href="#">KP675071</a><br><a href="#">OK267854</a>                                                                                                                                                                                                     | Forward<br>Probe<br>Reverse | T20-<br>C10A, G17-, T18-, G24-, C25-, T26-, G27-<br>Reverse Missing                                               | limited coverage (excluded) |
| <a href="#">1</a>  | <a href="#">KP674928</a>                                                                                                                                                                                                                                                                                         | Probe<br>Reverse            | C10A, G11C, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-<br>Reverse Missing                         | limited coverage (excluded) |

| #Accessions        | #Accession Details                                                                                                                                                                                                                                                                                               | Oligo   | Mutation                                                                                                   | Impact                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------|-----------------------------|
| <a href="#">1</a>  | <a href="#">OP796842</a>                                                                                                                                                                                                                                                                                         | Forward | T20-                                                                                                       | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A, G17-, T18-, T26-, G27-                                                                               |                             |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                            |                             |
| <a href="#">3</a>  | <a href="#">OR859814</a><br><a href="#">MT374236</a><br><a href="#">KJ451639</a>                                                                                                                                                                                                                                 | Probe   | C10A, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                         | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                            |                             |
| <a href="#">1</a>  | <a href="#">OM681568</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A, G24-                                                                                                 | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                            |                             |
| <a href="#">1</a>  | <a href="#">OK267672</a>                                                                                                                                                                                                                                                                                         | Forward | T20-                                                                                                       | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A, G15-, G24-, C25-, T26-, G27-                                                                         |                             |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                            |                             |
| <a href="#">49</a> | <a href="#">49</a>                                                                                                                                                                                                                                                                                               | Probe   | C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27- | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                            |                             |
| <a href="#">2</a>  | <a href="#">KP675146</a><br><a href="#">PQ159255</a>                                                                                                                                                                                                                                                             | Forward | T20-                                                                                                       | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                                 |                             |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                            |                             |
| <a href="#">1</a>  | <a href="#">MN902076</a>                                                                                                                                                                                                                                                                                         | Forward | G1T                                                                                                        | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A                                                                                                       |                             |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                            |                             |
| <a href="#">1</a>  | <a href="#">PQ384459</a>                                                                                                                                                                                                                                                                                         | Forward | +252C                                                                                                      | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A, C25G, +23G                                                                                           |                             |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, C19A                                        |                             |
| <a href="#">11</a> | <a href="#">KP674815</a><br><a href="#">KP675070</a><br><a href="#">KY575048</a><br><a href="#">KY575047</a><br><a href="#">KY575046</a><br><a href="#">KP675367</a><br><a href="#">MW358897</a><br><a href="#">KP674942</a><br><a href="#">KP675499</a><br><a href="#">KX008751</a><br><a href="#">KP674941</a> | Forward | T20-                                                                                                       | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                               |                             |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                            |                             |
| <a href="#">2</a>  | <a href="#">LC317499</a><br><a href="#">PX107539</a>                                                                                                                                                                                                                                                             | Probe   | C10A, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                   | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                            |                             |
| <a href="#">1</a>  | <a href="#">KC544516</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A, G15C, T19A, A20G, C25-, T26-, G27-                                                                   | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                            |                             |
| <a href="#">3</a>  | <a href="#">KM065477</a><br><a href="#">KJ009319</a><br><a href="#">KY575045</a>                                                                                                                                                                                                                                 | Forward | T20-                                                                                                       | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                           |                             |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                            |                             |
| <a href="#">1</a>  | <a href="#">OK267891</a>                                                                                                                                                                                                                                                                                         | Forward | T20-                                                                                                       | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A, G15-, A20C, C25-, T26-, G27-                                                                         |                             |

| #Accessions        | #Accession Details                                                                                                                                                                                                                                                                                               | Oligo   | Mutation                                                                                                                  | Impact                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">1</a>  | <a href="#">MZ677154</a>                                                                                                                                                                                                                                                                                         | Probe   | G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                      | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">1</a>  | <a href="#">MF797714</a>                                                                                                                                                                                                                                                                                         | Probe   | C9-, G11A, G15T, T19G, C23-, G24-, C25-, T26-, G27-                                                                       | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">1</a>  | <a href="#">DQ242637</a>                                                                                                                                                                                                                                                                                         | Forward | +234A                                                                                                                     | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                                    |                             |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">1</a>  | <a href="#">OK267770</a>                                                                                                                                                                                                                                                                                         | Forward | T20-                                                                                                                      | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A, A20C, C23-, G24-, C25-, T26-, G27-                                                                                  |                             |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">6</a>  | <a href="#">OR859833</a><br><a href="#">HQ014727</a><br><a href="#">OR647611</a><br><a href="#">HQ014728</a><br><a href="#">PP467556</a><br><a href="#">OR859819</a>                                                                                                                                             | Probe   | T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-      | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">1</a>  | <a href="#">OK267878</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A, T18G, A20C, G24C, T26A, +4A, +12T                                                                                   | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">18</a> | <a href="#">18</a>                                                                                                                                                                                                                                                                                               | Forward | T20-                                                                                                                      | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                                    |                             |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">1</a>  | <a href="#">MZ536259</a>                                                                                                                                                                                                                                                                                         | Probe   | A5-, C10A, G17-, T18-, T26-, G27-                                                                                         | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">1</a>  | <a href="#">KP674914</a>                                                                                                                                                                                                                                                                                         | Forward | T20-                                                                                                                      | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Probe   | C10A, G16-, G17-, T18-, C25-, T26-, G27-                                                                                  |                             |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">1</a>  | <a href="#">OK267729</a>                                                                                                                                                                                                                                                                                         | Probe   | C10G, A20C, G24-, C25-, T26-, G27-, +4A, +9A                                                                              | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">11</a> | <a href="#">JN675309</a><br><a href="#">OR859813</a><br><a href="#">OR859830</a><br><a href="#">PP799153</a><br><a href="#">OR647622</a><br><a href="#">OW988755</a><br><a href="#">MZ677164</a><br><a href="#">OP410930</a><br><a href="#">OW984958</a><br><a href="#">PQ047145</a><br><a href="#">OW983509</a> | Probe   | A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27- | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">1</a>  | <a href="#">MF797756</a>                                                                                                                                                                                                                                                                                         | Probe   | C10A, G11T, G17T, T19A, C23-, G24-, C25-, T26-, G27-, +8G                                                                 | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |
| <a href="#">1</a>  | <a href="#">PP859188</a>                                                                                                                                                                                                                                                                                         | Probe   | C10G, A20T, G24-, C25-, T26-, G27-, +2T, +9A                                                                              | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                           |                             |

| #Accessions       | #Accession Details                                                                                                                                                                               | Oligo   | Mutation                                                                                                                            | Impact                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <a href="#">1</a> | <a href="#">OR647628</a>                                                                                                                                                                         | Forward | G19A                                                                                                                                | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | C10A, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                            |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                                     |                             |
| <a href="#">1</a> | <a href="#">KP675391</a>                                                                                                                                                                         | Forward | T20-                                                                                                                                | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | C10A, G15T, G17-, T18-, C25-, T26-, G27-                                                                                            |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                                     |                             |
| <a href="#">7</a> | <a href="#">OW988735</a><br><a href="#">OR647632</a><br><a href="#">PV740050</a><br><a href="#">PV740063</a><br><a href="#">MT731461</a><br><a href="#">JN675307</a><br><a href="#">KX833102</a> | Probe   | C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                     | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                                     |                             |
| <a href="#">1</a> | <a href="#">KP675517</a>                                                                                                                                                                         | Forward | T20-                                                                                                                                | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | C10A, G17-, T18-, C25-, T26-, G27-                                                                                                  |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                                     |                             |
| <a href="#">1</a> | <a href="#">OK267641</a>                                                                                                                                                                         | Probe   | C10A, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-, +4A                                                               | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                                     |                             |
| <a href="#">5</a> | <a href="#">KP675368</a><br><a href="#">OP375708</a><br><a href="#">KM521204</a><br><a href="#">OK267661</a><br><a href="#">KX090441</a>                                                         | Forward | T20-                                                                                                                                | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | C10A, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                                  |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                                     |                             |
| <a href="#">2</a> | <a href="#">KP675133</a><br><a href="#">KP675527</a>                                                                                                                                             | Forward | T20-                                                                                                                                | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | C9-, G11A, G17-, T18-, T26-, G27-                                                                                                   |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                                     |                             |
| <a href="#">1</a> | <a href="#">KP675576</a>                                                                                                                                                                         | Forward | T20-                                                                                                                                | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | C9-, G11A, G15-, G24-, C25-, T26-, G27-                                                                                             |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                                     |                             |
| <a href="#">6</a> | <a href="#">FN435839</a><br><a href="#">PV247925</a><br><a href="#">OK268015</a><br><a href="#">PV739595</a><br><a href="#">MW493248</a><br><a href="#">ON016539</a>                             | Probe   | A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27- | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                                     |                             |
| <a href="#">1</a> | <a href="#">MZ254976</a>                                                                                                                                                                         | Forward | T20-                                                                                                                                | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | C10A, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                            |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                                     |                             |
| <a href="#">1</a> | <a href="#">LC631696</a>                                                                                                                                                                         | Forward | C2A, G4A                                                                                                                            | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | C10A, C22-, C23-, G24-, C25-, T26-, G27-                                                                                            |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                                     |                             |
| <a href="#">1</a> | <a href="#">KP674901</a>                                                                                                                                                                         | Forward | T20-                                                                                                                                | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | C9-, G11A, G17-, T18-, C25-, T26-, G27-                                                                                             |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                                     |                             |

| #Accessions        | #Accession Details                                                                                                                                                                                                                                                                                                                                                       | Oligo   | Mutation                                                                                                                                 | Impact                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <a href="#">1</a>  | <a href="#">OK267671</a>                                                                                                                                                                                                                                                                                                                                                 | Forward | T20-                                                                                                                                     | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | C10G, G17-, T18-, G24-, C25-, T26-, G27-, +9A                                                                                            |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">13</a> | <a href="#">KC408957</a><br><a href="#">KC408958</a><br><a href="#">OW988746</a><br><a href="#">KC408963</a><br><a href="#">MH084825</a><br><a href="#">KC408960</a><br><a href="#">KC408961</a><br><a href="#">OR647625</a><br><a href="#">KC408955</a><br><a href="#">KC408959</a><br><a href="#">KC408964</a><br><a href="#">KC408954</a><br><a href="#">PP624320</a> | Probe   | C4-, A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27- | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | Reverse Missing                                                                                                                          |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          |         |                                                                                                                                          |                             |
| <a href="#">1</a>  | <a href="#">KX008750</a>                                                                                                                                                                                                                                                                                                                                                 | Forward | T20-                                                                                                                                     | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | C10A, G11T, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                                       |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">6</a>  | <a href="#">OW983524</a><br><a href="#">PV706980</a><br><a href="#">OW983533</a><br><a href="#">OW984691</a><br><a href="#">OW983849</a><br><a href="#">OW985328</a>                                                                                                                                                                                                     | Probe   | A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-           | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | Reverse Missing                                                                                                                          |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          |         |                                                                                                                                          |                             |
| <a href="#">4</a>  | <a href="#">KP675436</a><br><a href="#">KP675089</a><br><a href="#">OP796852</a><br><a href="#">KX016021</a>                                                                                                                                                                                                                                                             | Forward | T20-                                                                                                                                     | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | C9-, G11A, G17-, T18-, G24-, C25-, T26-, G27-                                                                                            |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">1</a>  | <a href="#">KP675555</a>                                                                                                                                                                                                                                                                                                                                                 | Forward | T20-                                                                                                                                     | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | C9-, G11A, G16-, G17-, T18-, T26-, G27-                                                                                                  |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">4</a>  | <a href="#">MK039163</a><br><a href="#">PQ159250</a><br><a href="#">KP674670</a><br><a href="#">OW985327</a>                                                                                                                                                                                                                                                             | Forward | T20-                                                                                                                                     | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | C10A, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                           |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">1</a>  | <a href="#">AF167993</a>                                                                                                                                                                                                                                                                                                                                                 | Forward | G4A                                                                                                                                      | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | C10A, T18-, T26-, G27-                                                                                                                   |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">1</a>  | <a href="#">AB469380</a>                                                                                                                                                                                                                                                                                                                                                 | Forward | G11A, A17T                                                                                                                               | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | C10A, G11C                                                                                                                               |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, T20A, A22G                                                          |                             |
| <a href="#">1</a>  | <a href="#">MF797734</a>                                                                                                                                                                                                                                                                                                                                                 | Forward | T20-                                                                                                                                     | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Probe   | C9-, G11A, G15A, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                                                          |                             |
|                    |                                                                                                                                                                                                                                                                                                                                                                          | Reverse | Reverse Missing                                                                                                                          |                             |

| #Accessions        | #Accession Details                                                                                                                                                                                                                                                                                               | Oligo                       | Mutation                                                                                                                                                         | Impact                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <a href="#">11</a> | <a href="#">KP674902</a><br><a href="#">KP675575</a><br><a href="#">KP674913</a><br><a href="#">OP806391</a><br><a href="#">KP675654</a><br><a href="#">PX103096</a><br><a href="#">KX008753</a><br><a href="#">KP675390</a><br><a href="#">MW358892</a><br><a href="#">MF371417</a><br><a href="#">MW197689</a> | Forward<br>Probe<br>Reverse | T20-<br>C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-<br>Reverse Missing                            | limited coverage (excluded) |
| <a href="#">1</a>  | <a href="#">KP892553</a>                                                                                                                                                                                                                                                                                         | Forward<br>Probe<br>Reverse | T20G<br>A5G, A7G, C10A, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-<br>Reverse Missing                              | limited coverage (excluded) |
| <a href="#">1</a>  | <a href="#">OR166474</a>                                                                                                                                                                                                                                                                                         | Probe<br>Reverse            | C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-, +2T<br>Reverse Missing                          | limited coverage (excluded) |
| <a href="#">2</a>  | <a href="#">OR647615</a><br><a href="#">OR647629</a>                                                                                                                                                                                                                                                             | Forward<br>Probe<br>Reverse | G19A<br>C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-<br>Reverse Missing                            | limited coverage (excluded) |
| <a href="#">1</a>  | <a href="#">OR647630</a>                                                                                                                                                                                                                                                                                         | Forward<br>Probe<br>Reverse | G11A<br>C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-<br>Reverse Missing                            | limited coverage (excluded) |
| <a href="#">1</a>  | <a href="#">OR647614</a>                                                                                                                                                                                                                                                                                         | Forward<br>Probe<br>Reverse | G11C, G19A<br>C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-<br>Reverse Missing                      | limited coverage (excluded) |
| <a href="#">5</a>  | <a href="#">MZ254975</a><br><a href="#">PV740061</a><br><a href="#">OR526609</a><br><a href="#">PV740062</a><br><a href="#">MF033154</a>                                                                                                                                                                         | Forward<br>Probe<br>Reverse | T20-<br>C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-<br>Reverse Missing                       | limited coverage (excluded) |
| <a href="#">1</a>  | <a href="#">OW983531</a>                                                                                                                                                                                                                                                                                         | Probe<br>Reverse            | C2T, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-<br>Reverse Missing           | limited coverage (excluded) |
| <a href="#">2</a>  | <a href="#">PV740051</a><br><a href="#">PX103092</a>                                                                                                                                                                                                                                                             | Forward<br>Probe<br>Reverse | T20-<br>T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-<br>Reverse Missing                  | limited coverage (excluded) |
| <a href="#">47</a> | <a href="#">47</a>                                                                                                                                                                                                                                                                                               | Probe<br>Reverse            | Probe Missing<br>Reverse Missing                                                                                                                                 | limited coverage (excluded) |
| <a href="#">4</a>  | <a href="#">OW988794</a><br><a href="#">OR647623</a><br><a href="#">ON016585</a><br><a href="#">LC317496</a>                                                                                                                                                                                                     | Probe<br>Reverse            | T3-, C4-, A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-<br>Reverse Missing | limited coverage (excluded) |

| #Accessions        | #Accession Details                                                                                                                       | Oligo   | Mutation                                                                                                                                           | Impact                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <a href="#">1</a>  | <a href="#">OK267882</a>                                                                                                                 | Forward | T21C                                                                                                                                               | limited coverage (excluded) |
|                    |                                                                                                                                          | Probe   | C2A, A6G, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                               |                             |
|                    |                                                                                                                                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">5</a>  | <a href="#">PQ222659</a><br><a href="#">MT988198</a><br><a href="#">GQ376082</a><br><a href="#">OP876825</a><br><a href="#">OM523869</a> | Forward | T20-                                                                                                                                               | limited coverage (excluded) |
|                    |                                                                                                                                          | Probe   | A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                          |                             |
|                    |                                                                                                                                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">KF746419</a>                                                                                                                 | Forward | T20-, +238A                                                                                                                                        | limited coverage (excluded) |
|                    |                                                                                                                                          | Probe   | C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                         |                             |
|                    |                                                                                                                                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">2</a>  | <a href="#">MT777637</a><br><a href="#">OW987761</a>                                                                                     | Probe   | C2-, T3-, C4-, A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27- | limited coverage (excluded) |
|                    |                                                                                                                                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">2</a>  | <a href="#">PQ836168</a><br><a href="#">OW983363</a>                                                                                     | Forward | T20-                                                                                                                                               | limited coverage (excluded) |
|                    |                                                                                                                                          | Probe   | A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                     |                             |
|                    |                                                                                                                                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">OK267767</a>                                                                                                                 | Forward | T20-, +241C                                                                                                                                        | limited coverage (excluded) |
|                    |                                                                                                                                          | Probe   | A20T, G24-, C25-, T26-, G27-, +4A, +10AG, +14AG                                                                                                    |                             |
|                    |                                                                                                                                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">3</a>  | <a href="#">MZ254974</a><br><a href="#">MW197688</a><br><a href="#">MF114318</a>                                                         | Forward | T20-                                                                                                                                               | limited coverage (excluded) |
|                    |                                                                                                                                          | Probe   | A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                |                             |
|                    |                                                                                                                                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">MF114317</a>                                                                                                                 | Forward | T14-                                                                                                                                               | limited coverage (excluded) |
|                    |                                                                                                                                          | Probe   | C4-, A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-           |                             |
|                    |                                                                                                                                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">4</a>  | <a href="#">MG774392</a><br><a href="#">LC663591</a><br><a href="#">KC408962</a><br><a href="#">KC408956</a>                             | Forward | T20-                                                                                                                                               | limited coverage (excluded) |
|                    |                                                                                                                                          | Probe   | C4-, A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-           |                             |
|                    |                                                                                                                                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">27</a> | <a href="#">27</a>                                                                                                                       | Forward | T21-                                                                                                                                               | limited coverage (excluded) |
|                    |                                                                                                                                          | Probe   | Probe Missing                                                                                                                                      |                             |
|                    |                                                                                                                                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">KC544504</a>                                                                                                                 | Forward | T14-, T20-                                                                                                                                         | limited coverage (excluded) |
|                    |                                                                                                                                          | Probe   | A5-, C10A, T13-, T19-, A20-, T26-, G27-                                                                                                            |                             |
|                    |                                                                                                                                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">MK560517</a>                                                                                                                 | Forward | G4A                                                                                                                                                | limited coverage (excluded) |
|                    |                                                                                                                                          | Probe   | A5-, C10A                                                                                                                                          |                             |

| #Accessions        | #Accession Details       | Oligo   | Mutation                                                                                                                                           | Impact                      |
|--------------------|--------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|                    |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">OK267907</a> | Forward | T14-                                                                                                                                               | limited coverage (excluded) |
|                    |                          | Probe   | C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                         |                             |
|                    |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">KP674758</a> | Forward | G4A, G8A                                                                                                                                           | limited coverage (excluded) |
|                    |                          | Probe   | C10A, G27A                                                                                                                                         |                             |
|                    |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-                                                                          |                             |
| <a href="#">1</a>  | <a href="#">OR647619</a> | Forward | G11T                                                                                                                                               | limited coverage (excluded) |
|                    |                          | Probe   | C2-, T3-, C4-, A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27- |                             |
|                    |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">KM402089</a> | Forward | T15C, T21C                                                                                                                                         | limited coverage (excluded) |
|                    |                          | Probe   | C4T, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                     |                             |
|                    |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">KY575049</a> | Forward | A7G, T16G, T20-                                                                                                                                    | limited coverage (excluded) |
|                    |                          | Probe   | A7T, C10A, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                                                        |                             |
|                    |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">43</a> | <a href="#">43</a>       | Forward | T20-, T21-                                                                                                                                         | limited coverage (excluded) |
|                    |                          | Probe   | Probe Missing                                                                                                                                      |                             |
|                    |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">MK547252</a> | Forward | T20-                                                                                                                                               | limited coverage (excluded) |
|                    |                          | Probe   | T3-, C4-, A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-      |                             |
|                    |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">MF797721</a> | Forward | A18G, +248TA                                                                                                                                       | limited coverage (excluded) |
|                    |                          | Probe   | C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                    |                             |
|                    |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">MH744728</a> | Forward | G4A, G8A, G11A, G19T, +245T                                                                                                                        | limited coverage (excluded) |
|                    |                          | Probe   | T3A, C10G, T13A, T18C, A20-, +4A                                                                                                                   |                             |
|                    |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">OL457984</a> | Forward | +248A                                                                                                                                              | limited coverage (excluded) |
|                    |                          | Probe   | T3-, C4-, A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-      |                             |
|                    |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>  | <a href="#">OK267696</a> | Forward | +245CT                                                                                                                                             | limited coverage (excluded) |
|                    |                          | Probe   | T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-, +4A, +10AA                                                                             |                             |
|                    |                          | Reverse | Reverse Missing                                                                                                                                    |                             |

| #Accessions        | #Accession Details                                                                                                                                                                                                           | Oligo   | Mutation                                       | Impact                      |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------|-----------------------------|
| <a href="#">1</a>  | <a href="#">KY102108</a>                                                                                                                                                                                                     | Forward | G11C                                           | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                              | Probe   | Probe Missing                                  |                             |
|                    |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                |                             |
| <a href="#">6</a>  | <a href="#">ON311105</a><br><a href="#">JN675306</a><br><a href="#">OK267716</a><br><a href="#">OK267648</a><br><a href="#">OP404259</a><br><a href="#">MT988193</a>                                                         | Forward | G19-, T20-, T21-                               | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                              | Probe   | Probe Missing                                  |                             |
|                    |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                |                             |
| <a href="#">6</a>  | <a href="#">OW982783</a><br><a href="#">OW982612</a><br><a href="#">OW983532</a><br><a href="#">OW983278</a><br><a href="#">OW984133</a><br><a href="#">OW983457</a>                                                         | Forward | T14-, T21-                                     | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                              | Probe   | Probe Missing                                  |                             |
|                    |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                |                             |
| <a href="#">8</a>  | <a href="#">KP131706</a><br><a href="#">MT731458</a><br><a href="#">OW988327</a><br><a href="#">OW987820</a><br><a href="#">OK267501</a><br><a href="#">OW983513</a><br><a href="#">EU798700</a><br><a href="#">OW987926</a> | Forward | T16-, A17-, A18-, G19-, T20-, T21-             | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                              | Probe   | Probe Missing                                  |                             |
|                    |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                |                             |
| <a href="#">1</a>  | <a href="#">MG599240</a>                                                                                                                                                                                                     | Forward | A18-, G19-, T20-, T21-                         | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                              | Probe   | Probe Missing                                  |                             |
|                    |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                |                             |
| <a href="#">29</a> | <a href="#">29</a>                                                                                                                                                                                                           | Forward | T15-, T16-, A17-, A18-, G19-, T20-, T21-       | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                              | Probe   | Probe Missing                                  |                             |
|                    |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                |                             |
| <a href="#">1</a>  | <a href="#">OP422499</a>                                                                                                                                                                                                     | Forward | T21-, +242T                                    | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                              | Probe   | Probe Missing                                  |                             |
|                    |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                |                             |
| <a href="#">3</a>  | <a href="#">OW982440</a><br><a href="#">OW983269</a><br><a href="#">OW982634</a>                                                                                                                                             | Forward | T14-                                           | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                              | Probe   | Probe Missing                                  |                             |
|                    |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                |                             |
| <a href="#">6</a>  | <a href="#">KU936095</a><br><a href="#">MF033155</a><br><a href="#">MW040029</a><br><a href="#">PP352597</a><br><a href="#">ON016546</a><br><a href="#">MZ375475</a>                                                         | Forward | A17-, A18-, G19-, T20-, T21-                   | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                              | Probe   | Probe Missing                                  |                             |
|                    |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                |                             |
| <a href="#">6</a>  | <a href="#">KY608067</a><br><a href="#">MN521697</a><br><a href="#">MW358895</a><br><a href="#">PV247924</a><br><a href="#">KU950723</a><br><a href="#">KM402091</a>                                                         | Forward | T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21- | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                              | Probe   | Probe Missing                                  |                             |
|                    |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                |                             |
| <a href="#">1</a>  | <a href="#">KU739414</a>                                                                                                                                                                                                     | Forward | T15C, A18-, G19-, T20-, T21-                   | limited coverage (excluded) |
|                    |                                                                                                                                                                                                                              | Probe   | Probe Missing                                  |                             |
|                    |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                |                             |

| #Accessions       | #Accession Details                                                                                                                                                   | Oligo   | Mutation                                                                                                                                 | Impact                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <a href="#">1</a> | <a href="#">KY605143</a>                                                                                                                                             | Forward | G11C, A17-, A18-, G19-, T20-, T21-                                                                                                       | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | Probe Missing                                                                                                                            |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">1</a> | <a href="#">KM402090</a>                                                                                                                                             | Forward | T15C, T20-                                                                                                                               | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | C4-, A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27- |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">1</a> | <a href="#">OR647616</a>                                                                                                                                             | Forward | G11T, T21-                                                                                                                               | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | Probe Missing                                                                                                                            |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">3</a> | <a href="#">PV595935</a><br><a href="#">KY608070</a><br><a href="#">OK267667</a>                                                                                     | Forward | C13-, T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21-                                                                                     | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | Probe Missing                                                                                                                            |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">4</a> | <a href="#">KJ816903</a><br><a href="#">MG599215</a><br><a href="#">KX766214</a><br><a href="#">KF305831</a>                                                         | Forward | T12-, C13-, T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21-                                                                               | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | Probe Missing                                                                                                                            |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">2</a> | <a href="#">KJ651910</a><br><a href="#">KJ651907</a>                                                                                                                 | Forward | +234A                                                                                                                                    | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | Probe Missing                                                                                                                            |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">1</a> | <a href="#">KU535594</a>                                                                                                                                             | Forward | T14-, T20-                                                                                                                               | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | C10A, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                                       |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">1</a> | <a href="#">OR567422</a>                                                                                                                                             | Forward | G1C, +245T                                                                                                                               | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | T3A, C4A, C10A, C22T, +20T                                                                                                               |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">2</a> | <a href="#">MT334402</a><br><a href="#">MT334400</a>                                                                                                                 | Forward | A17C                                                                                                                                     | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | C10A, T13C                                                                                                                               |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">6</a> | <a href="#">MZ375466</a><br><a href="#">KX129761</a><br><a href="#">PP334148</a><br><a href="#">PP333224</a><br><a href="#">ON016549</a><br><a href="#">ON016559</a> | Forward | G11-, T12-, C13-, T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21-                                                                         | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | Probe Missing                                                                                                                            |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">2</a> | <a href="#">KF468207</a><br><a href="#">PX249703</a>                                                                                                                 | Forward | G8-, A9-, C10-, G11-, T12-, C13-, T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21-                                                         | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | Probe Missing                                                                                                                            |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                                                                          |                             |
| <a href="#">1</a> | <a href="#">MN475749</a>                                                                                                                                             | Forward | G11A, T15-, T16-, A17-, A18-, G19-, T20-, T21-                                                                                           | limited coverage (excluded) |
|                   |                                                                                                                                                                      | Probe   | Probe Missing                                                                                                                            |                             |
|                   |                                                                                                                                                                      | Reverse | Reverse Missing                                                                                                                          |                             |

| #Accessions       | #Accession Details                                                                                                                                                                               | Oligo   | Mutation                                                                                                             | Impact                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <a href="#">1</a> | <a href="#">OW986299</a>                                                                                                                                                                         | Forward | C10-, G11-, T12-, C13-, T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21-                                               | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | Probe Missing                                                                                                        |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                      |                             |
| <a href="#">1</a> | <a href="#">MH699026</a>                                                                                                                                                                         | Forward | G1C, C6G, G11A, A17C                                                                                                 | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27- |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                      |                             |
| <a href="#">1</a> | <a href="#">KY575039</a>                                                                                                                                                                         | Forward | A3C, C10T, T20-                                                                                                      | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | C10A, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                               |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                      |                             |
| <a href="#">1</a> | <a href="#">MK300035</a>                                                                                                                                                                         | Forward | A9-, C10-, G11-, T12-, C13-, T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21-                                          | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | Probe Missing                                                                                                        |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                      |                             |
| <a href="#">1</a> | <a href="#">KJ651873</a>                                                                                                                                                                         | Forward | C2A, G4A, A7G, T21-                                                                                                  | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | Probe Missing                                                                                                        |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                      |                             |
| <a href="#">7</a> | <a href="#">EF108240</a><br><a href="#">KU936092</a><br><a href="#">EF108237</a><br><a href="#">EF108241</a><br><a href="#">EF108238</a><br><a href="#">EF108242</a><br><a href="#">EF108236</a> | Forward | A5-, C6-, A7-, G8-, A9-, C10-, G11-, T12-, C13-, T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21-                      | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | Probe Missing                                                                                                        |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                      |                             |
| <a href="#">2</a> | <a href="#">PP625801</a><br><a href="#">PX107541</a>                                                                                                                                             | Forward | A7-, G8-, A9-, C10-, G11-, T12-, C13-, T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21-                                | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | Probe Missing                                                                                                        |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                      |                             |
| <a href="#">5</a> | <a href="#">MT731459</a><br><a href="#">KX130866</a><br><a href="#">MF769550</a><br><a href="#">MF445110</a><br><a href="#">PQ606358</a>                                                         | Forward | A3-, G4-, A5-, C6-, A7-, G8-, A9-, C10-, G11-, T12-, C13-, T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21-            | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | Probe Missing                                                                                                        |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                      |                             |
| <a href="#">1</a> | <a href="#">OP802966</a>                                                                                                                                                                         | Forward | G4-, A5-, C6-, A7-, G8-, A9-, C10-, G11-, T12-, C13-, T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21-                 | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | Probe Missing                                                                                                        |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                      |                             |
| <a href="#">1</a> | <a href="#">MW218892</a>                                                                                                                                                                         | Forward | C13A, T21-, +244G                                                                                                    | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | Probe Missing                                                                                                        |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                      |                             |
| <a href="#">1</a> | <a href="#">MH534934</a>                                                                                                                                                                         | Forward | G11C, A18-, G19-, T20-, T21-                                                                                         | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | Probe Missing                                                                                                        |                             |
|                   |                                                                                                                                                                                                  | Reverse | Reverse Missing                                                                                                      |                             |
| <a href="#">1</a> | <a href="#">MK547221</a>                                                                                                                                                                         | Forward | T16-, A17-, A18-, G19-, T20-, T21-, +237C, +240A                                                                     | limited coverage (excluded) |
|                   |                                                                                                                                                                                                  | Probe   | Probe Missing                                                                                                        |                             |

| #Accessions         | #Accession Details                                                                                                                                                                                                           | Oligo   | Mutation                                                                                                                                           | Impact                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|                     |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>   | <a href="#">MG659716</a>                                                                                                                                                                                                     | Forward | G4A, C6-, A7-, G8-, A9-, C10-, G11-, G19-                                                                                                          | limited coverage (excluded) |
|                     |                                                                                                                                                                                                                              | Probe   | A5-, C10A, T18-, G24-                                                                                                                              |                             |
|                     |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">8</a>   | <a href="#">MF769558</a><br><a href="#">KU936093</a><br><a href="#">ON479774</a><br><a href="#">KY773283</a><br><a href="#">MF769557</a><br><a href="#">KT191104</a><br><a href="#">PQ283693</a><br><a href="#">ON016545</a> | Forward | C2-, A3-, G4-, A5-, C6-, A7-, G8-, A9-, C10-, G11-, T12-, C13-, T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21-                                     | limited coverage (excluded) |
|                     |                                                                                                                                                                                                                              | Probe   | Probe Missing                                                                                                                                      |                             |
|                     |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>   | <a href="#">PV232887</a>                                                                                                                                                                                                     | Forward | G11A, A18C, +244C                                                                                                                                  | limited coverage (excluded) |
|                     |                                                                                                                                                                                                                              | Probe   | C2-, T3-, C4-, A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27- |                             |
|                     |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">367</a> | <a href="#">367</a>                                                                                                                                                                                                          | Forward | Forward Missing                                                                                                                                    | limited coverage (excluded) |
|                     |                                                                                                                                                                                                                              | Probe   | Probe Missing                                                                                                                                      |                             |
|                     |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">4</a>   | <a href="#">MT587583</a><br><a href="#">MT587584</a><br><a href="#">MT587585</a><br><a href="#">MT587586</a>                                                                                                                 | Forward | A17C                                                                                                                                               | limited coverage (excluded) |
|                     |                                                                                                                                                                                                                              | Probe   | C10A, T13C, T26A                                                                                                                                   |                             |
|                     |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>   | <a href="#">OW985882</a>                                                                                                                                                                                                     | Forward | G8C, A18-, G19-, T20-, T21-                                                                                                                        | limited coverage (excluded) |
|                     |                                                                                                                                                                                                                              | Probe   | Probe Missing                                                                                                                                      |                             |
|                     |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>   | <a href="#">MH348949</a>                                                                                                                                                                                                     | Forward | G1C, T15C, T20-                                                                                                                                    | limited coverage (excluded) |
|                     |                                                                                                                                                                                                                              | Probe   | C10A, G11T, G15C, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                                                             |                             |
|                     |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>   | <a href="#">PX353338</a>                                                                                                                                                                                                     | Forward | +233C, +236GA, +238A, +241G, +244TC                                                                                                                | limited coverage (excluded) |
|                     |                                                                                                                                                                                                                              | Probe   | Probe Missing                                                                                                                                      |                             |
|                     |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>   | <a href="#">KY611796</a>                                                                                                                                                                                                     | Forward | A7G, A18G, T21C                                                                                                                                    | limited coverage (excluded) |
|                     |                                                                                                                                                                                                                              | Probe   | C1A, A6C, C10T, G11A, C22A                                                                                                                         |                             |
|                     |                                                                                                                                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-, T15-, G18A                                                              |                             |
| <a href="#">1</a>   | <a href="#">MF187234</a>                                                                                                                                                                                                     | Forward | A7-, T12-, A18-, G19-, T20G                                                                                                                        | limited coverage (excluded) |
|                     |                                                                                                                                                                                                                              | Probe   | A5-, C10A, G15-                                                                                                                                    |                             |
|                     |                                                                                                                                                                                                                              | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a>   | <a href="#">MF187268</a>                                                                                                                                                                                                     | Forward | C6G, A7C, +241G, +244G                                                                                                                             | limited coverage (excluded) |
|                     |                                                                                                                                                                                                                              | Probe   | C4G, A5C, C9G, G11A, C22G, +1G, +20G                                                                                                               |                             |
|                     |                                                                                                                                                                                                                              | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-                                                                                |                             |

| #Accessions       | #Accession Details       | Oligo   | Mutation                                                                                                                                           | Impact                      |
|-------------------|--------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <a href="#">1</a> | <a href="#">OQ127545</a> | Forward | G4A, G8A, G11T, G19T                                                                                                                               | limited coverage (excluded) |
|                   |                          | Probe   | Probe Missing                                                                                                                                      |                             |
|                   |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a> | <a href="#">MF187228</a> | Forward | G4-, G8-, A18-, G19-, T20G                                                                                                                         | limited coverage (excluded) |
|                   |                          | Probe   | C1-, A5-, C10A, C21-                                                                                                                               |                             |
|                   |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a> | <a href="#">KC597823</a> | Forward | G1C, A3G, G8-, G11A, A17-, A18T                                                                                                                    | limited coverage (excluded) |
|                   |                          | Probe   | C2-, T3-, C4-, A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27- |                             |
|                   |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a> | <a href="#">MF187278</a> | Forward | A7-, T14-, T20-                                                                                                                                    | limited coverage (excluded) |
|                   |                          | Probe   | C1-, A7-, T8-, C9T, G11A, C21-                                                                                                                     |                             |
|                   |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a> | <a href="#">KX420741</a> | Forward | C6-, G11-, A17-, G19T                                                                                                                              | limited coverage (excluded) |
|                   |                          | Probe   | C1-, A5-, G11-, G15A, T19-, A20-, C21A                                                                                                             |                             |
|                   |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a> | <a href="#">MF187230</a> | Forward | A3-, A7-, A17-                                                                                                                                     | limited coverage (excluded) |
|                   |                          | Probe   | C1-, A7-, T8-, C9T, G11A, T19-, A20-, C21A                                                                                                         |                             |
|                   |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a> | <a href="#">LC813629</a> | Forward | G4A, A7-, T14-, T21-                                                                                                                               | limited coverage (excluded) |
|                   |                          | Probe   | Probe Missing                                                                                                                                      |                             |
|                   |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a> | <a href="#">PV074709</a> | Forward | G4C, G8C, G11A, T15-, T16-, A17-, A18-, G19-, T20-, T21-                                                                                           | limited coverage (excluded) |
|                   |                          | Probe   | Probe Missing                                                                                                                                      |                             |
|                   |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a> | <a href="#">MF187227</a> | Forward | A3-, G4-, A5-, C6-, A7-, T12A, T15C, A17T, T20-                                                                                                    | limited coverage (excluded) |
|                   |                          | Probe   | A5-, C10A, G17-, T18-, C21-                                                                                                                        |                             |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T11-, T12-, G13-, A14-, T15-                                                                    |                             |
| <a href="#">1</a> | <a href="#">MF187308</a> | Forward | G1A, G8T, G11T, A17T, A18T, T21C, +251A                                                                                                            | limited coverage (excluded) |
|                   |                          | Probe   | T8G, C10A, T13G, G15T, C22-, C23-, G24-, C25-, T26-, G27-, +2A                                                                                     |                             |
|                   |                          | Reverse | Reverse Missing                                                                                                                                    |                             |
| <a href="#">1</a> | <a href="#">MT640024</a> | Forward | G4-, A7-, T16-, A17-, T20-                                                                                                                         | limited coverage (excluded) |
|                   |                          | Probe   | C1-, A7-, T8-, C9T, G11A, G17-, T18-                                                                                                               |                             |
|                   |                          | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-, A10-, T17-, T21-                                                                                      |                             |
| <a href="#">1</a> | <a href="#">MF187312</a> | Forward | G1C, A3G, G11A, C13A, A17C, A18T, G19T                                                                                                             | limited coverage (excluded) |
|                   |                          | Probe   | A6C, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-, T19-, A20-, C21-, C22-, C23-, G24-, C25-, T26-, G27-                                    |                             |
|                   |                          | Reverse | Reverse Missing                                                                                                                                    |                             |

| #Accessions       | #Accession Details                                                               | Oligo   | Mutation                                                                                                | Impact                      |
|-------------------|----------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------|-----------------------------|
| <a href="#">1</a> | <a href="#">MF196232</a>                                                         | Forward | A3T, C10-, G11-, T12-, C13-, T14-, T15-, T16-, A17-, A18-, G19-, T20-, T21-                             | limited coverage (excluded) |
|                   |                                                                                  | Probe   | Probe Missing                                                                                           |                             |
|                   |                                                                                  | Reverse | Reverse Missing                                                                                         |                             |
| <a href="#">1</a> | <a href="#">KY106471</a>                                                         | Forward | G1-, C2-, A3-, G4-, A5-, C6-, A7-, G8-, A9-, C10-, G11-, T12-, C13-, T14-                               | limited coverage (excluded) |
|                   |                                                                                  | Probe   | C10A                                                                                                    |                             |
|                   |                                                                                  | Reverse | +7C                                                                                                     |                             |
| <a href="#">2</a> | <a href="#">XR_002648373</a><br><a href="#">PQ113349</a>                         | Forward | G1-, C2-, A3-, G4-, A5-, C6-, A7-, G8-, A9-, C10-, G11-, T12-, C13-, T14-, T15-, T16-, A17-, A18-       | limited coverage (excluded) |
|                   |                                                                                  | Probe   | C10A                                                                                                    |                             |
| <a href="#">1</a> | <a href="#">KY106475</a>                                                         | Forward | G1-, C2-, A3-, G4-, A5-, C6-, A7-, G8-, A9-, C10-, G11-, T12-, C13-, T14-, T15-                         | limited coverage (excluded) |
|                   |                                                                                  | Probe   | C10A                                                                                                    |                             |
|                   |                                                                                  | Reverse | +7C                                                                                                     |                             |
| <a href="#">1</a> | <a href="#">ON244776</a>                                                         | Forward | T20-                                                                                                    | limited coverage (excluded) |
|                   |                                                                                  | Probe   | C10A, T26-, G27-                                                                                        |                             |
|                   |                                                                                  | Reverse | Reverse Missing                                                                                         |                             |
| <a href="#">1</a> | <a href="#">ON249119</a>                                                         | Forward | T20-                                                                                                    | limited coverage (excluded) |
|                   |                                                                                  | Reverse | Reverse Missing                                                                                         |                             |
| <a href="#">1</a> | <a href="#">OQ731755</a>                                                         | Forward | G1-, C2-, A3-, G4-, A5-, C6-, A7-, G8-, A9-, C10-, G11-, T12-, C13-, T14-, T15-, T16-, G19C             | limited coverage (excluded) |
|                   |                                                                                  | Probe   | C10A, G17A, T18C, +18C                                                                                  |                             |
|                   |                                                                                  | Reverse | C1-, C2-, T3-, C4-, C5-, G6-, C7-, T8-, T9-                                                             |                             |
| <a href="#">1</a> | <a href="#">KY106469</a>                                                         | Forward | Forward Missing                                                                                         | limited coverage (excluded) |
|                   |                                                                                  | Probe   | C1-, C2-, C10A, +17G                                                                                    |                             |
|                   |                                                                                  | Reverse | +9T, T20C, T21C                                                                                         |                             |
| <a href="#">1</a> | <a href="#">Y15467</a>                                                           | Forward | Forward Missing                                                                                         | limited coverage (excluded) |
|                   |                                                                                  | Probe   | C1-, C2-, T3-, C4-, A5-, A6-, A7-, T8-, C9-, C10-, G11-, G12-, T13-, A14-, G15-, G16-, G17-, T18-       |                             |
| <a href="#">3</a> | <a href="#">FN393990</a><br><a href="#">KY106472</a><br><a href="#">KY106479</a> | Forward | Forward Missing                                                                                         | limited coverage (excluded) |
|                   |                                                                                  | Probe   | Probe Missing                                                                                           |                             |
| <a href="#">1</a> | <a href="#">JF825465</a>                                                         | Forward | G1-, C2-, A3-, G4-, A5-, C6-, A7-, G8-, A9-, C10-, G11-, T12-, C13-, T14-, T15-, T16-, A17-, A18-, G19- | limited coverage (excluded) |
|                   |                                                                                  | Probe   | C1T, C10A, G17A, T18C                                                                                   |                             |
|                   |                                                                                  | Reverse | Reverse Missing                                                                                         |                             |