

Search Details

Job Title/ Assay Name : acan1126	Amplicon Sequence: CCCAGATCGTTTACCGTGAAAAAATTAGAGTGTTCAAAGCAGGCAG ATCCAATTTTCTGCCACCGAATACATTAGCATGGGATAATGGAATAG GACCCTGTCCTCCTATTTTCAGTTGGTTTTGGCAGCGCGAGGACTA GGGTAATGATTAATAGGGATAGTTGGGGGCATTAATATTTA
Effective Date : 2025-08-07	Forward: CCCAGATCGTTTACCGTGAA
Database : core_nt	Reverse: TAAATATTAATGCCCCCAACTATCC
Alignment algorithm : blastN	Probe: CTGCCACCGAATACATTAGCATGG
Exclusive Organism:	Inclusive Organism: Acanthamoeba
RID: 98G0D4SC013	Total Result: 4530
App Version: 1.0	

#Accessions	Oligo	Mutation	Impact
Acanthamoeba/5754 Analyzed Accessions: 1525			
1112	NA	No Mutations	Detected
16	Forward	C1-	Detected
7	Forward	C1-, C2-	Detected
2	Forward	A13C	Detected
2	Reverse	A10G	Detected
1	Probe	C1G	Detected
1	Reverse	A6G	Detected
4	Forward	C8T	Detected
2	Forward	G9T	Detected
1	Reverse	T5C	Detected
1	Forward	A13G	Detected
1	Forward	G9C	Detected
1	Forward	T10G	Detected
1	Forward	C3A	Detected
1	Reverse	A18T	Detected
1	Reverse	A3G	Detected
1	Forward	C8G	Detected
2	Reverse	T11G	Detected
1	Probe	T2A	Detected
1	Probe	G19A	Detected
10	Forward	C1-, C2-, C3-	Detected
5	Forward	+6A	Detected
1	Probe	+18A	Detected

#Accessions	Oligo	Mutation	Impact
1	Forward	+8T	Detected
2	Forward	+5G	Detected
6	Forward	C1-, C2-, C3-, A4-	Detected
2	Reverse	T1-, A2-, A3-, A4-	Detected
2	Forward	T7A	Detected
7	Forward	C8-	Detected
2	Probe	G19T	Detected
6	Forward	T7A, C8T	Detected
4	Forward	G5A	Detected
1	Reverse	A9G	Detected
6	Forward	C1-, C2-, C3-, A4-, G5-	Detected
1	Probe	G23A	Detected
3	Probe	C1T	Detected
1	Reverse	T1-, A2-, A3-, A4-, T5-	Detected
3	Forward	G9C, T10G	Detected
1	Reverse	A9C	Detected
2	Reverse	C17T	Detected
1	Forward	G5A, T7A	Detected
1	Forward	T7C	Detected
1	Probe	G3T, T17G	Detected
1	Reverse	+8T	Detected
7	Forward	C1-, C2-, C3-, A4-, G5-, A6-	Detected
1	Forward	C8T, +6A	Detected
1	Probe	A18-, G19-	Detected
19	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-	Detected
1	Forward	C3A, G9-	Detected
1	Forward	C1-, C2-	Detected
	Probe	T17C	
1	Probe	A6C	Detected
23	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-	Detected
1	Forward	G9-, +5G	Detected
1	Reverse	+10A	Detected
1	Forward	C1-, C2-, C3-, A4-, G9-	Detected
1	Probe	A15T	Detected
1	Reverse	T8-	Detected
22	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-	Detected
1	Probe	A15-	Detected
1	Probe	C1G, A6-	Detected

#Accessions	Oligo	Mutation	Impact
1	Probe	A10G	Detected
32	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-	Detected
1	Probe	A21G	Detected
1	Forward	+5R	Detected
1	Forward	G5A	Detected
	Probe	C1T, +2T	
1	Forward	A4G, T12-	Detected
2	Probe	A6G	Detected
1	Probe	A6-	Detected
1	Probe	C1G, A6G	Detected
1	Probe	A6T, G19A	Detected
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-	Detected
	Probe	C1T	
1	Forward	+8C	Detected
	Reverse	+17C	
1	Probe	G3A	Detected
2	Forward	T12-	Detected
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-	Detected
	Probe	A6G	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-	Detected
	Probe	A6T	
1	Reverse	T1-	Detected
1	Forward	G5A	Detected
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-	
1	Forward	C14G, +6A	Detected
	Reverse	A18C	
1	Forward	G5T	Detected
	Probe	T12A	
	Reverse	T1-, A2-, A3-, A4-	
1	Forward	+17AGGAGGG	Detected
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-	Detected
	Probe	+17A	
	Reverse	+19A	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-	Detected
	Reverse	+19A	
1	Reverse	A6C, G12-	Detected
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-	Detected
	Probe	+15T	
1	Forward	C8-, A13C	Detected

#Accessions	Oligo	Mutation	Impact
1	Forward	C8-, +13G	Detected
	Probe	+2C, +6G	
	Reverse	+17C	
1	Forward	+8C	Detected
	Probe	A6C, +3GC, +17T	
	Reverse	+10A	
1	Forward	C1-, C2-, C3-, C8T	Detected
1	Probe	C8-	Detected
1	Probe	T12-	Detected
1	Probe	A6G, C7G	Detected
1	Forward	A13T	Detected
	Probe	A6C	
1	Forward	C1-, C2-, C3-	Detected
	Reverse	T1-, A2-, A3-, A4-, T5-	
4	Reverse	+17C	Detected
1	Forward	C8A	Detected
1	Reverse	+22A	Detected
1	Forward	C1-, C2-, T7C	Detected
1	Forward	T7-, C8-	Detected
1	Forward	C1-, C2-, G5T	Detected
	Probe	G19A	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-	Detected
	Reverse	T1-	
1	Reverse	+23T	Detected
1	Probe	A6-	Detected
	Reverse	A6T, +17C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-	Detected
	Reverse	C13T, C14A	
54	Probe	+1C	Detected
1	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-	Detected
2	Forward	C1-	Detected
	Probe	+1C	
1	Forward	C1-	Detected
	Reverse	A4C, A19T	
2	Probe	A6-, T22-	Detected
	Reverse	A18-, A19-	
1	Probe	A11-	Detected
1	Forward	T12-	Detected
	Probe	+1C	

#Accessions	Oligo	Mutation	Impact
1	Probe	+1C	Detected
	Reverse	T1-, A2-, A3-, A4-, T5-	
1	Forward	T7A, C8T, G9C, +15T, +18T	Detected
	Probe	+2T, +15A	
	Reverse	+12A, C20A	
5	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-	Detected
	Probe	+1C	
1	Forward	C1-	Detected
	Probe	C1T	
	Reverse	T1-, T11G	
7	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-	Detected
	Probe	+1C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-	Detected
	Probe	+1C	
1	Forward	G5A	Detected
	Reverse	T1-	
1	Forward	C1-, C2-, C3-, A4-, G5-	Detected
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-	
1	Probe	T16-	Detected
	Reverse	A10-	
1	Forward	T12-	Detected
	Probe	+1C	
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-	
1	Forward	C1-, C2-, C3-, A4-, G5-, +13T, +19TT	Detected
	Probe	+3G, +19T	
	Reverse	T1-, A2-	
1	Reverse	T1-, A2-	Detected
1	Forward	T17C	Not Detected
1	Forward	T17A	Not Detected
1	Reverse	C24A	Not Detected
1	Forward	A4G, A6T, A13C	Not Detected
1	Forward	G9C, A19C, A20C	Not Detected
1	Probe	A18G, G24T	Not Detected
	Reverse	A22C	
1	Forward	T17A	Not Detected
	Reverse	A18G	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, C15G	Not Detected
	Probe	C8T	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T17G	Not Detected

#Accessions	Oligo	Mutation	Impact
1	Forward	C1-, C2-, C3-, A4-, G5-, T12-	Not Detected
	Reverse	+19A	
1	Forward	A4T, C8T, T10G, T17C	Not Detected
	Probe	C8A, T22C	
1	Reverse	T23C	Not Detected
1	Forward	G9C, T10G, T12C, T17C, +15C	Not Detected
	Probe	+10C	
1	Forward	G16C, T17G, G18T	Not Detected
1	Forward	C1-, C2-, A13G	Not Detected
	Probe	C1T, G9-	
1	Forward	G5-, C14G, C15G	Not Detected
2	Forward	T10A, T12A, C14A, C15A	Not Detected
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, A20C	Not Detected
1	Reverse	C16-, C17-	Not Detected
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, A20C	Not Detected
	Reverse	C16-, C17-	
1	Forward	C1-, C2-, C3-, A4-, T11C	Not Detected
	Reverse	T1-, A2-	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, A20C	Not Detected
	Reverse	C25G	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, A19G	Not Detected
	Reverse	C16T, C17G, A19C	
1	Forward	T10A, C15T, A20G, +6G	Not Detected
	Probe	C4G, A6T	
	Reverse	A10G, A19G	
1	Forward	T12G, C15A, G16A, T17A	Not Detected
	Probe	T17G, T22A	
	Reverse	A18G	
1	Forward	G5T, G18A	Not Detected
	Probe	A6C, G9A, C14T, A15T, G19A, C20T, A21G	
	Reverse	G12A, C20A	
1	Probe	C1T, A6C, A13C	Not Detected
1	Probe	A13C, G19C	Not Detected
	Reverse	C13G	
1	Forward	C1-, C2-, C3-, A4-, A19C, A20C	Not Detected
	Reverse	A3C, A10G, C16-, C17-, A18-	
1	Forward	A6T, C8T, G18A	Not Detected
	Probe	G3C, A10C, T16C	
	Reverse	A18C, A19C	

#Accessions	Oligo	Mutation	Impact
1	Forward	G5T, G9T	Not Detected
	Probe	A6C, G9A, C14T, A15T, G19A, C20T, A21G	
	Reverse	T11A, G12A, C20A, C24A	
1	Probe	C1-, T2-, A6-, T17-, T22-	Not Detected
	Reverse	A19-	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, A13T, T17C	Not Detected
1	Forward	C1-, G5C, C8G, A13T	Not Detected
1	Probe	C8G, A13C, T22G	Not Detected
	Reverse	C24T	
1	Probe	C1-, G3C, T16-, T17-	Not Detected
	Reverse	A19-	
1	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-, G12-, C17T, A22T, C25G	Not Detected
1	Probe	C8G, A13C	Not Detected
	Reverse	A18C	
1	Probe	G3C, A6C, A13C, G19C	Not Detected
	Reverse	C13G, A18C, A22T, C24T	
1	Forward	G5T, G9T	Not Detected
	Probe	A6C, G9A, C14T, A15T, G19A, C20T, A21G, G24A	
	Reverse	T1-, T11A, G12A, A19C, C24A	
1	Forward	T17-	Not Detected
	Probe	G3C, A6-, C7-, A13G, T22G, G24-	
	Reverse	A19-	
1	Forward	G5C, C8A, G9T	Not Detected
	Probe	A6C, G19T, G24T	
1	Probe	C1T, T2C, A6G, C7T, C8T, A15G, T17C	Not Detected
	Reverse	T8C, A9G	
1	Forward	G5T, G9T, T17A	Not Detected
	Probe	A6C, G9A, C14T, A15T, G19A, C20T, A21G	
	Reverse	T11A, A19C, C20A, C24A	
1	Forward	C1-, C2-, C3-, A4-, G5-, C8A, T17C	Not Detected
	Probe	A6C, A18T, G19T, G24T	
	Reverse	T8A, A19T	
2	Probe	T2A, C4G, +8ACGAT	Not Detected
	Reverse	A18G, T21C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, G16C, T17C	Not Detected
	Probe	A6C, G9C, G19T, C20A	
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-, G12-, A19T	
18	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-	limited coverage (excluded)

#Accessions	Oligo	Mutation	Impact
21	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-	limited coverage (excluded)
19	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-	limited coverage (excluded)
8	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-	limited coverage (excluded)
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-	limited coverage (excluded)
	Reverse	A19G	
5	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-	limited coverage (excluded)
2	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-	limited coverage (excluded)
1	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-, G12-, C13-, C14-, A18C	limited coverage (excluded)
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-	limited coverage (excluded)
	Probe	+2T	
5	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-	limited coverage (excluded)
8	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-, G18-	limited coverage (excluded)
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-	limited coverage (excluded)
	Probe	C1T, G3T	
1342	Forward	Forward Missing	limited coverage (excluded)
2	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-, G18-, A19-	limited coverage (excluded)
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-, G18-	limited coverage (excluded)
	Probe	T12-	

#Accessions	Oligo	Mutation	Impact
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-, G18-	limited coverage (excluded)
	Probe	G3C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-	limited coverage (excluded)
	Probe	A6-	
8	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6G	
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1T	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-, G18-	limited coverage (excluded)
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-	
7	Reverse	Reverse Missing	limited coverage (excluded)
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-	limited coverage (excluded)
	Reverse	+19T	
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4G	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, A20T	limited coverage (excluded)
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	C7G	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-, G12-, C13-, C14-, C15-, C16-, C17-, A18-	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T1-, A2-	
41	Forward	Forward Missing	limited coverage (excluded)
	Probe	+1C	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3-	
27	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	A18C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-	limited coverage (excluded)

#Accessions	Oligo	Mutation	Impact
	Probe	G19A, T22A	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T1-, A2-, A3-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T12A	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	+1T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+5C	
6	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-	
18	Forward	Forward Missing	limited coverage (excluded)
	Reverse	Reverse Missing	
2	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T1-	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-	limited coverage (excluded)
	Reverse	C15-, C16-, C17-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3T, +3GA	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+14N	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T23G	
5	Forward	Forward Missing	limited coverage (excluded)
	Probe	+2T	
1	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-, G12-, C13-, C14-, C15-, C16-	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+9C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1T, C7G	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	A4G	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	+7A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+2C	

#Accessions	Oligo	Mutation	Impact
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+2A	
6	Forward	Forward Missing	limited coverage (excluded)
	Probe	+11A	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	G19C	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	A10G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+9G	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	A13C	
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3T, C4T	
5	Forward	Forward Missing	limited coverage (excluded)
	Probe	C5-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T22A	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-, G12-, C13-, C14-, C15-, C16-, A19G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A13T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G24C	
7	Forward	Forward Missing	limited coverage (excluded)
	Probe	C8-	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T1-, A2-, A3-, A4-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G19C, +8CG	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2G, C4T, +4T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C8-, +2T	
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	+22C	

#Accessions	Oligo	Mutation	Impact
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-	
	Reverse	A22T	
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-, A13-	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-	limited coverage (excluded)
	Probe	+1C	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	+16A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+18C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-	limited coverage (excluded)
	Reverse	T1-, A2-, A3-, A4-, C15-, C16-, C17-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4A, C8-, +1CT	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4T, +2TG	
2	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-, G12-, C13-, C14-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A10G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+10G	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	C7A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G19C, A21C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T12G, +22C	
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	+17T	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4A, C8-, +2T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G19T	

#Accessions	Oligo	Mutation	Impact
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-, C7-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3T, +4NT	
19	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A11C, T12C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C20-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6C, +11A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+7G	
4	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-	
4	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+18A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4T, A21-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C8-, +23C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+21A	
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-, G12-, C13-, C14-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A15G, G19T, +19A	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	C15G, C16G	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-	limited coverage (excluded)
	Probe	T2A	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, G18-, A19-, A20-	limited coverage (excluded)
	Probe	T2G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A10G, +7A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1G, C5A, A6G	

#Accessions	Oligo	Mutation	Impact
	Reverse	A19T	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, A6G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T17A, A18T, G19A, +7G	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, G9T	
37	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-, A10G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C5G, C7A, T12-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3T, C8A, +8A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4T, A10G, +22C	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	C5G, C8-	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-	limited coverage (excluded)
	Reverse	Reverse Missing	
22	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4G, A6C, +11A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A15G, C20A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+13A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, A6-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C5T	

#Accessions	Oligo	Mutation	Impact
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-	limited coverage (excluded)
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-, G12-, C13-, C14-	
21	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A21-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2C, A6G, C7A, C8A, G9A, A18C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4G, A6C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C20G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, C7A, G9A	
7	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A15G, C20A, +2C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4T, C5T, +7A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C5G, C7A, T12-, +7A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C5T, A6-, C7-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1G, A6-, C8G, G9A	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T7G, C24T	
7	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, T12C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C8A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C7G, A11G	
	Reverse	C15G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4T	

#Accessions	Oligo	Mutation	Impact
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3T, C5-	
	Reverse	A10-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3T, C4A, C7-, C8-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+9T	
	Reverse	T11A	
14	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, G19C, C20G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, G9A, G19T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, A21T, T22A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, A11-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-	
	Reverse	A3C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+12T	
29	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, +19G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3T, C4A, C8-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, +17T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, +22C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, +17TT	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+12T, +17T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-	

#Accessions	Oligo	Mutation	Impact
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4T, A6-, A10G, T12G, A21C, T22C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-	
	Reverse	T7G, T8G	
7	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A15T, G19C, +3G	
	Reverse	G12C	
10	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, +16G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, +16A	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	A15C	
11	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G9T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, A15-, G19T, C20G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1T, G3T, C4A	
	Reverse	T1-, A2-, +9T, +12T	
5	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-	
3	Probe	+1C	limited coverage (excluded)
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6T, +19G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, T12-, A13-, G19C, +19T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6G, A10G, +18T	
5	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-	

#Accessions	Oligo	Mutation	Impact
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, A6C, T12-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1T, T2G	
6	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A13T, +1C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, +16G	
	Reverse	T1-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-, A15-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1G, C5A, A6G	
4	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, G9A, A15-, G19T, A21-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3T, C4G, +4AA, +16A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, +16G	
	Reverse	C15T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, +16G	
	Reverse	C15G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G19A, +1C	
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C5T, A6T, C7T, C8A	
	Reverse	T1-, A2-, A10-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-	
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-, G12-	

#Accessions	Oligo	Mutation	Impact
12	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21-, T22-	
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21-, T22-, G23-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2C, A6C, A11-, A21C, T22C, +19Y	
184	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-	limited coverage (excluded)
	Probe	C1T, T2C, G3T, A6T, C7T, A13C, A15T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, +17TT	
	Reverse	T5A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, T22C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3T, +3NT	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21-, T22-	
	Reverse	A3C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, C14G, A15-	
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G19A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, +12T, +17TT	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-, A11-, A15-, A21T, T22G	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T5A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, G24C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-, +1C	

#Accessions	Oligo	Mutation	Impact
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2C, G3T, C4G, A6G, A11G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3T, C4T, C5A, A6C, C7A, +19G	
	Reverse	T1-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2G, C4G, A6G, C7A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+1C	
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6G, C7A, A15C, +3G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A15-, G19A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, +17T	
	Reverse	+17G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A21C, T22C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, C8-, A13-, T17-	
	Reverse	A10-, A19-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, T12-, C20A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6G, C7A, +1G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, A6G, C7A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C8T	
	Reverse	T8C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4G, T12-, A15T, G19C, C20A, A21T	
	Reverse	G12C, A19T, T21C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, G19T, A21C, T22C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A15C, G19C, +9C, +20C	

#Accessions	Oligo	Mutation	Impact
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, A15C, T17C, T22A, +11R	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2C, T16C, +9C, +16C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+1T	
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-	
	Reverse	G12C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-	
	Reverse	+14G, +20G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2G, A6T, A11T, A21C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C5T, A6T, C8A, G9A	
	Reverse	+13A, +19T A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A15-, G19A	
	Reverse	T7A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, A15-	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, C15T	limited coverage (excluded)
	Probe	C1G, A10G, T16G, T17A	
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C8-, +2T	
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, C5G	
	Reverse	T11A, C24T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4G, C8-, T12G, T17G	
	Reverse	A18C, A19-, A22-	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-	limited coverage (excluded)

#Accessions	Oligo	Mutation	Impact
	Probe	C1T, T2C, A6G, C7T, C8T, A15G, T17C	
	Reverse	T8C, A9G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6C, A15C, +1C	
	Reverse	T1-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T12A, G19C, A21T, T22G, +3G	
	Reverse	T5A, T11C, G12C, T21C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+2AT	
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3A	
1	Probe	A21-, T22-, G23-, G24-	limited coverage (excluded)
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2G, A6-	
	Reverse	T5A, T8A, T11G, G12C, T21C, A22-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-, G9T, A15-, G19-	
	Reverse	C20T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1T, T2G, C8T, +9N	
	Reverse	T8-, T11G, +23A N T C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-, G18-	limited coverage (excluded)
	Probe	C8G, A13C, G19C, T22G	
	Reverse	C13G, A18C, A22T, C24T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C8T, G9-, +2T	
	Reverse	+10G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, A10G, G19C, A21C, T22C, +22TC	
1	Probe	G19-, C20-, A21-, T22-, G23-, G24-	limited coverage (excluded)
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	A19C	
1	Forward	Forward Missing	limited coverage (excluded)

#Accessions	Oligo	Mutation	Impact
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-	
	Reverse	T7A, T8A, T11C, G12C, C20A, T23C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-, G18-, A19-	limited coverage (excluded)
	Probe	C1T, G3C, A6C, A10G, A13T	
	Reverse	C13G, A22T, C24T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-, C7-, T12C, A15-, T22-	
	Reverse	A19-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4G, A10C, T17A, C20A, A21T, +11G	
	Reverse	T1-, A2-, T11A	
9	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C14G, T16G	
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+8A	
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-, A11T, T12-, A13-	
	Reverse	+8T, +17C, +22A	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-	limited coverage (excluded)
	Probe	C1T, T2G, G3A, A10G, +6T, +15C, +20G	
	Reverse	+5C, +17C A, C20T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	T11G, +17C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4G	
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-, A9-, A10-, T11-, G12-, C13-, C14-, C15-, T21G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T12-, A15-	
	Reverse	T8G, A9G, A10-, +19A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	A3T, T7A	

#Accessions	Oligo	Mutation	Impact
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2A, G3A, A6T, C8A, A10T, A15T, G24A	
	Reverse	C16T, A22C, C25T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G3-, A6T, T16C, A18T, G19T, T22C, +10CATC	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2-, A6-, A15-, A21-	
	Reverse	A9G, A10G, A18G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, A15G, T16C, A21G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	+17G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	A4T	
1	Probe	C5G, A6C, G9C, T12A, C14A, A18-, G19-, C20-, A21-, T22-, G23-, G24-	limited coverage (excluded)
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G19-	
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G19-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A15G, T16C, A21G, G24A	
	Reverse	C14A, A19C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	T1-, A2-, A3-, A4-, C15G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	T8-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, C14T	
	Reverse	T8G, T11C, A22G, C25T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	T1-, A2-	

#Accessions	Oligo	Mutation	Impact
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	T11G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	+23G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-	
	Reverse	T8A, T11G, C17-, A22T, C24T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	T1-, A2-, T21G, +23A T T C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, T22G	
	Reverse	A9T, A10G, A19T, C20T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	T1-, A2-, T8-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	G12A, C20A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	A22C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	T5A, T11A, G12A, C20A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	A18C, A19C, T21C, T23C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	T8C, C24T	
Acanthamoeba castellanii/5755 Analyzed Accessions: 67			
48	NA	No Mutations	Detected
1	Forward	C1-, C2-	Detected
1	Forward	C8T	Detected
1	Probe	C1T	Detected

#Accessions	Oligo	Mutation	Impact
1	Forward	G5A	Detected
3	Forward	+6A	Detected
1	Forward	T7A, C8T	Detected
2	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-	Detected
2	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-	Detected
1	Forward	C1-, C2-, C3-, A4-, G5-	Detected
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-	Detected
1	Probe	C1T	Detected
	Reverse	A10G	
1	Probe	A13-	Detected
1	Reverse	+17C	Detected
1	Forward	C1-, C2-, C3-	Detected
	Probe	A13C	
1	Forward	G18A	Not Detected
	Probe	G3C, A6C, C14T	
	Reverse	T1-, T8A, A18C, A19C, T21C	
7	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-	limited coverage (excluded)
3	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-	limited coverage (excluded)
2	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-	limited coverage (excluded)
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-	limited coverage (excluded)
3	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-	limited coverage (excluded)
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, A19G	limited coverage (excluded)
61	Forward	Forward Missing	limited coverage (excluded)
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-, G18-	limited coverage (excluded)

#Accessions	Oligo	Mutation	Impact
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+11A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+9C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A21-	
2	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-	limited coverage (excluded)
	Probe	C1T, A6C, A11T, A15T, G19C, +2TAAAC	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C8A, +8A	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2G, A6-, A15-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, +21A	
6	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C8-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, A6C, A11T, A15T, G19C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, +17N	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21-, T22-	

#Accessions	Oligo	Mutation	Impact
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2-, G3-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-, C7-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-	
	Reverse	C17-	
10	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
Acanthamoeba lenticulata/29196 Analyzed Accessions: 65			
3	NA	No Mutations	Detected
40	Probe	+1C	Detected
1	Probe	+18C	Detected
1	Forward	C8T	Detected
	Probe	+1C	
1	Probe	+1C, +5N	Detected
1	Forward	C8-	Detected
	Probe	+1C	
2	Probe	G19A, +1C	Detected
1	Probe	A6C, +1C	Detected
1	Forward	T7G, C8T	Detected
	Probe	+1C	
2	Forward	C1-, C2-, C3-, A4-, G5-, A6-	Detected
	Probe	+1C	
1	Forward	C1-, +7T	Detected
	Probe	A6C, +1C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-	Detected
	Probe	+1C	
2	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-	Detected
	Probe	+1C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-	Detected
	Probe	A6C, +1C	
2	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-	Detected
	Probe	+1C	
1	Forward	C1-, C2-, C3-	Detected
	Probe	A13T, +1C	
1	Forward	T12A, A13T	Not Detected
	Probe	+1C	

#Accessions	Oligo	Mutation	Impact
1	Forward	G5A, T7A, T12-	Not Detected
	Probe	+1C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T12A	Not Detected
	Probe	A13T, +1C	
1	Forward	A6T, C8T, T12A, A13G, T17G	Not Detected
	Probe	A13T, G19T	
	Reverse	C17G	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-	limited coverage (excluded)
6	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-	limited coverage (excluded)
	Probe	+1C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-	limited coverage (excluded)
	Probe	+1C	
3	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-	limited coverage (excluded)
	Probe	+1C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-	limited coverage (excluded)
	Probe	+1C	
11	Forward	Forward Missing	limited coverage (excluded)
	Probe	+1C	
10	Forward	Forward Missing	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C5G, +1C	
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+9T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-	
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-	

#Accessions	Oligo	Mutation	Impact
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T1-, A2-, A3-, A4-, T5-, A6-, T7-, T8-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C4G, A6G, C8A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2C, C4G, +6G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	C16A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21-, T22-	
8	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
Acanthamoeba jacobsi/238784 Analyzed Accessions: 31			
26	NA	No Mutations	Detected
1	Forward	+8C	Detected
1	Forward	+6A	Detected
1	Forward	T12C, +12C	Detected
1	Probe	C8-	Detected
1	Forward	T7A, C8T	Detected
	Reverse	T8C	
24	Forward	Forward Missing	limited coverage (excluded)
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G9A	

#Accessions	Oligo	Mutation	Impact
2	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T8C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C5-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-	
	Reverse	T8C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1T, A6G, C7A, C8A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T16C, T22C	
	Reverse	A10G	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T11C, G12C, C14A, C15A, A19T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, A6C	
	Reverse	A10G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-	
	Reverse	T8C, G12-, C13-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6T, A10C, A15T, +2C, +22C	
Acanthamoeba polyphaga/5757 Analyzed Accessions: 30			
26	NA	No Mutations	Detected
1	Forward	C1-, T7A	Detected
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-	Detected
1	Forward	G9C, T10G, +13AC	Detected
1	Forward	T11A, T12A	Not Detected
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-	limited coverage (excluded)
28	Forward	Forward Missing	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)

#Accessions	Oligo	Mutation	Impact
	Probe	+2A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2G, A6-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G9C	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+17CN	
	Reverse	A18G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21-	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	+3G, +17T	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21-	
	Reverse	T1-, A2-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
Acanthamoeba hatchetti/65660 Analyzed Accessions: 16			
14	NA	No Mutations	Detected
1	Probe	C4T	Detected
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-	Detected
	Reverse	A18G	
20	Forward	Forward Missing	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T11C	

#Accessions	Oligo	Mutation	Impact
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6G, +15G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T16C, A18T, +9T, +18CAC	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
Acanthamoeba culbertsoni/43142 Analyzed Accessions: 14			
11	NA	No Mutations	Detected
1	Forward	C1-, C2-, C3-, C8T	Detected
1	Probe	C1T, G3T, A6C	Not Detected
	Reverse	+16A	
1	Probe	C1T, G3T, A6C, G19C, A21C	Not Detected
32	Forward	Forward Missing	limited coverage (excluded)
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	+11A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+16A	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	A18C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A15-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21-, T22-	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T1-, T7A, T8A, T11C, G12C, T23C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
Acanthamoeba quina/211522 Analyzed Accessions: 9			
7	NA	No Mutations	Detected
2	Probe	C1T	Detected

#Accessions	Oligo	Mutation	Impact
2	Forward	Forward Missing	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
Acanthamoeba griffini/29195 Analyzed Accessions: 8			
6	NA	No Mutations	Detected
1	Reverse	+17C	Detected
1	Forward	C1-, C2-	Detected
	Probe	C4-, C5-	
2	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-	limited coverage (excluded)
2	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-	limited coverage (excluded)
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-	limited coverage (excluded)
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T17G	limited coverage (excluded)
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-, G18-	limited coverage (excluded)
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-	limited coverage (excluded)
10	Forward	Forward Missing	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C8A	
	Reverse	T1-, A2-, C17-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C5A, A6G, A15-	
Acanthamoeba palestinensis/28015 Analyzed Accessions: 8			

#Accessions	Oligo	Mutation	Impact
6	NA	No Mutations	Detected
2	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-	Detected
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-	
13	Forward	Forward Missing	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+2A	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	T11A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T2G, A6-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+17T	
	Reverse	+17G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-	
1	Forward	T17G	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	Reverse Missing	
Acanthamoeba triangularis/146752 Analyzed Accessions: 6			
4	NA	No Mutations	Detected
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-	Detected
1	Forward	G5A, G9-	Detected
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-, C14-, C15-, G16-, T17-, G18-	limited coverage (excluded)
1	Reverse	Reverse Missing	limited coverage (excluded)
8	Forward	Forward Missing	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6-, A15-	

#Accessions	Oligo	Mutation	Impact
	Reverse	+17G	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-, C7-, C8-, G9-, A10-, A11-, T12-, A13-, C14-, A15-, T16-, T17-, A18-, G19-, C20-, A21-	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
Acanthamoeba lugdunensis/61605 Analyzed Accessions: 4			
4	NA	No Mutations	Detected
3	Forward	Forward Missing	limited coverage (excluded)
Acanthamoeba rhyodes/32599 Analyzed Accessions: 4			
3	NA	No Mutations	Detected
1	Forward	C1-, C2-, C3-, A4-	Detected
1	Forward	Forward Missing	limited coverage (excluded)
Acanthamoeba cf. healyi/682864 Analyzed Accessions: 4			
2	NA	No Mutations	Detected
1	Forward	A13T	Detected
	Reverse	C17A, A18C	
1	Forward	C1-, C2-, A13T, C15-, G18C	Not Detected
3	Forward	Forward Missing	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	A6C, A21-	
	Reverse	+11C	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, A6-, A21-	
	Reverse	+11C	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T12C, A13G, C14T, G18C	limited coverage (excluded)
	Probe	C4T, A6T, T12-, A13G, A18C, A21T, G24C	
	Reverse	Reverse Missing	
Acanthamoeba healyi/65661 Analyzed Accessions: 4			
2	NA	No Mutations	Detected
1	Probe	A6C	Detected
1	Forward	C8A, G9C	Not Detected
	Probe	A6C, A15C	

#Accessions	Oligo	Mutation	Impact
2	Forward	Forward Missing	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, A6-	
Acanthamoeba astronyxis/65658 Analyzed Accessions: 3			
3	NA	No Mutations	Detected
1	Reverse	Reverse Missing	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-	
1	Forward	C1-, C2-, C3-, A4-, G5-, A6-, T7-, C8-, G9-, T10-, T11-, T12-, A13-	limited coverage (excluded)
	Reverse	Reverse Missing	
5	Forward	Forward Missing	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	G19T	
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	T12-	
2	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, T12A, G19T	
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
	Reverse	T11A, C20A	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C5G, G19T, C20A	
	Reverse	Reverse Missing	
Acanthamoeba mauritaniensis/196912 Analyzed Accessions: 2			
1	NA	No Mutations	Detected
1	Forward	C8T, G9T, T10C	Detected
3	Forward	Forward Missing	limited coverage (excluded)

#Accessions	Oligo	Mutation	Impact
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	C1-, T2-, G3-, C4-, C5-, T12C	
Acanthamoeba divionensis/202919 Analyzed Accessions: 2			
1	NA	No Mutations	Detected
1	Probe	T2C, +19T	Detected
1	Reverse	Reverse Missing	limited coverage (excluded)
Acanthamoeba royreba/32600 Analyzed Accessions: 2			
2	NA	No Mutations	Detected
Acanthamoeba stevensoni/65664 Analyzed Accessions: 2			
2	NA	No Mutations	Detected
Acanthamoeba pearcei/65662 Analyzed Accessions: 1			
1	NA	No Mutations	Detected
1	Forward	Forward Missing	limited coverage (excluded)
Acanthamoeba byersi/2506114 Analyzed Accessions: 1			
1	NA	No Mutations	Detected
4	Forward	Forward Missing	limited coverage (excluded)
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+9C	
1	Forward	Forward Missing	limited coverage (excluded)
	Reverse	Reverse Missing	
1	Forward	Forward Missing	limited coverage (excluded)
	Probe	+9G	
3	Forward	Forward Missing	limited coverage (excluded)
	Probe	Probe Missing	
Acanthamoeba pustulosa/65663 Analyzed Accessions: 1			
1	NA	No Mutations	Detected
Acanthamoeba terricola/196913 Analyzed Accessions: 1			
1	NA	No Mutations	Detected
Acanthamoeba echinulata/306324 Analyzed Accessions: 1			
1	NA	No Mutations	Detected
Acanthamoeba micheli/1675013 Analyzed Accessions: 1			
1	NA	No Mutations	Detected
Acanthamoeba pyriformis/1899168 Analyzed Accessions: 1			

#Accessions	Oligo	Mutation	Impact
1	Probe	C4T, C8T	Detected
Acanthamoeba comandoni/65659 Analyzed Accessions: 1			
1	Reverse	C25T	Not Detected
1	Forward	C8T, C15T	limited coverage (excluded)
	Probe	C8T	
	Reverse	Reverse Missing	
Acanthamoeba tubiashi/65665 Analyzed Accessions: 0			
3	Forward	Forward Missing	limited coverage (excluded)
1	Reverse	Reverse Missing	limited coverage (excluded)