

Synthetic Strain	Mutation 1	Mutation 2	Sequence
IN/DEL Strain 1	155 Deletion	174~175 Insertion A	CACTGCCCAACAACACCAGCTCCTCTCCCAGCCAAAGAAGAAACC _a ACTGGATGGAGAATATTTACCCCTTCAG
IN/DEL Strain 2	161 Deletion	177~178 Insertion C	CACTGCCCAACAACACCAGCTCCTCTCCCCAGCAAAGAAGAAACCACT _c GGATGGAGAATATTTACCCCTTCAG
IN/DEL Strain 3	173 Deletion	183~184 Insertion A	CACTGCCCAACAACACCAGCTCCTCTCCCAGCCAAAGAAGAAACACTGGATGGAA _a GAATATTTACCCCTTCAG
IN/DEL Strain 4	152 Deletion	185~186 Insertion C	CACTGCCCAACAACACCAGCTCCCTCCCCAGCCAAAGAAGAAACCACTGGATGGAG _c AATATTTACCCCTTCAG
IN/DEL Strain 5	163~164 Insertion GT	/	CACTGCCCAACAACACCAGCTCCTCTCCCCAGCCAg _t AAGAAGAAACCACTGGATGGAGAATATTTACCCCTTCAG
Substitution Strain 1	158 Substitution C->T	197 Substitution C->G	CACTGCCCAACAACACCAGCTCCTCTCCTTAGCCAAAGAAGAAACCACTGGATGGAGAATATTTACCCGTT _c CAGA
Substitution Strain 2	149 Substitution T->G	182 Substitution G->A	CACTGCCCAACAACACCAGCGCCTCTCCCCAGCCAAAGAAGAAACCACTGGATAGAGAATATTTACCCCTTCAGA
Substitution Strain 3	170 Substitution A->T	188 Substitution T->C	CACTGCCCAACAACACCAGCTCCTCTCCCCAGCCAAAGAAGTAACCACTGGATGGAGAA _c ATTTCACCCCTTCAGA
Substitution Strain 4	152 Substitution T->C	185 Substitution G->A	CACTGCCCAACAACACCAGCTCCCCTCCCCAGCCAAAGAAGAAACCACTGGATGGAAA _a ATATTTACCCCTTCAGA
Substitution Strain 5	137 Substitution A->T	173 Substitution C->T	CACTGCCCTACAACACCAGCTCCTCTCCCCAGCCAAAGAAGAAATCACTGGATGGAGAATATTTACCCCTTCAGA
4bp IN/DEL Strain 1	159~162 Deletion	183~184 Insertion AAAA	CACTGCCCAACAACACCAGCTCCTCTCCCCAAAGAAGAAACCACTGGATGGAAAA _a GAATATTTACCCCTTCAGA
4bp IN/DEL Strain 2	148~151 Deletion	177~178 Insertion AAAA	CACTGCCCAACAACACCAGCCTCCCCAGCCAAAGAAGAAACCACTGGGGGATGGAGAATATTTACCCCTTCAGA
4bp IN/DEL Strain 3	170~173 Deletion	199~200 Insertion CCCC	CACTGCCCAACAACACCAGCTCCTCTCCCCAGCCAAAGAAGCACTGGATGGAGAATATTTACCCCTCCCC _c CAGA
4bp IN/DEL Strain 4	137~140 Deletion	191~192 Insertion CCCC	CACTGCCCAACCCAGCTCCTCTCCCCAGCCAAAGAAGAAACCACTGGATGGAGAATATTTCCCTCACCCCTTCAGA
4bp IN/DEL Strain 5	134~137 Deletion	163~164 Insertion TTTT	CACTGACAACACCAGCTCCTCTCCCCAGCCATTTT _t AAGAAGAAACCACTGGATGGAGAATATTTACCCCTTCAGA