A.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pilot screen 75C | |  | Large 75C | |  | 56D screen | |  | |
| Isolation # | Sequence | | Isolation # | Sequence | Isolation # | | sequence | |
| 38 | K134X | | 122M |  | 9 | | Q1673X | |
| 127 | L1658N | | 142K | L825X | 31 | |  | |
| 166 | P119811 bp | | 231K |  | 56 | |  | |
|  |  | | 260K | S1590S | 178 | | V1334D | |
|  |  | | 310A |  | 273 | | V1286D | |
|  |  | | 430L | W1401X | 310 | | Q678X | |
|  |  | | 432L | Q1297X | 384 | |  | |
|  |  | | 451K | K1034X | 396 | | K1363X | |
|  |  | | 520G |  | 407 | | L714X | |
|  |  | | 540C |  | 482 | |  | |
|  |  | | 550A |  | 765 | |  | |
|  |  | | 610A | G1646E |  | |  | |
|  |  | | 623E | Y636X |  | |  | |
|  |  | | 760A |  |  | |  | |
|  |  | | 781A |  |  | |  | |
|  |  | | 805A |  |  | |  | |
|  |  | | 810B | Y888X |  | |  | |

B.

|  |  |  |
| --- | --- | --- |
| Allele | Viability with (%) | Viability with (%) |
| 38 | 805A | 127 |
| ATG AAG CAG  ATG **T**AG CAG | 24 | 75 |
|  |  |  |
| 623A |  |  |
| CCC TAT CTC  CCC TA**A** CTC | 43 | 0 |
|  |  |  |
| 310 |  |  |
| CCT CAG CCG  CCT **T**AG CCG | 0.3 | 0.4 |
|  |  |  |
| 432L |  |  |
| CTT CAG CGT  CTT **T**AG CGT | 37 | 1 |
|  |  |  |
| 430L |  |  |
| TTC TGG CTA  TTC T**A**G CTA | 1 | 2 |
|  |  |  |
| 9 |  |  |
| TAC CAG CGC  TAC **T**AG CGC | 24 | 55 |
|  |  |  |
| 810A |  |  |
| CGC TAT GAA  CGC TA**A** GAA | 0 | 0 |