

wild type *S.t.*LT2

K D G D N↓ I S R Y A A A
AAAGACGGCGATAACATTTCCCGTTATGCCGCAGCG

LM2 insertion in SE172

K D G D N E V E T P I R N I S R Y A A
AAAGACGGCGATAACGAAGTTGAAACCCCGATTCGTAACATTTCCCGTTATGCCGCA

CD154s insertion in SE173

K D G D N W A E K G Y Y T M S I S R Y A A
AAAGACGGCGATAACTGGGCAGAAAAAGGTTATTATACCATGTCTATTTCCCGTTATGCCGCA

Combination sequence I insertion in SE180A

K D G D N G G G W A E K G Y Y T M S G G G
AAAGACGGCGATAACGGTGGTGGTTGGGCAGAAAAAGGTTATTATACCATGTCTGGTGGTGGT
E V E T P I R N G G G I S R Y A A
GAAGTTGAAACCCCGATTCGTAACGGTGGTGGTATTTCCCGTTATGCCGCA

Combination sequence II insertion in SE189

K D G D N S S S S E V E T P T R N S S S S
AAAGACGGCGATAACTCCTCCTCCTCCGAAGTTGAAACCCCGACCCGTAACCTCCTCCTCCTCC
E V E T P T R N S S S S W A E K G Y Y T M
GAAGTTGAAACCCCGACCCGTAACCTCCTCCTCCTGGGCAGAAAAAGGTTATTATACCATG
S S S S S E V E T P I R N S S S S E V E T
TCTTCCTCCTCCTCCGAAGTTGAAACCCCGATTCGTAACCTCCTCCTCCTCCGAAGTTGAAACC
P I R N S S S S I S R Y A A
CCGATTCGTAACCTCCTCCTCCATTTCCCGTTATGCCGCA