

A)

ST258B ATGAACCGACAATCCTGGCTGCTCAATCTCAGCCTGCTGAAAACCTACCCGGCGTTTCGC
ST258A ATGAACCGACAATCCTGGCTGCTCAATCTCAGCCTGCTGAAAACCTACCCGGCGTTTCGC

ST258B GCCGTTTTTATCGCTCGCTTTATCTCTATTCTGTGCTTGGCCTGCTGGGCGTGGCCATT
ST258A GCCGTTTTTATCGCTCGCTTTATCTCTATTCTGTGCTTGGCCTGCTGGGCGTGGCCATT

ST258B CCGGTGCAGATCCAGATGATGACCCATTGACCTGGCAGGTGGGCTGTCGGTGACGCTG
ST258A CCGGTGCAGATCCAGATGATGACCCATTGACCTGGCAGGTGGGCTGTCGGTGACGCTG

ST258B ACCGGGGCGTCGATGTTTGTGGTCTGATGGTGGGGGGCGTGGCTGACCGCTATGAA
ST258A ACCGGGGCGTCGATGTTTGTGGTCTGATGGTGGGGGGCGTGGCTGACCGCTATGAA

ST258B CGTAAACGCCTGATCCTGCTGGCGCGGGCACCTGCGGCGTGGGCTTGTGCGCCTGTGT
ST258A CGTAAACGCCTGATCCTGCTGGCGCGGGCACCTGCGGCGTGGGCTTGTGCGCCTGTGT

ST258B CTGAACGCCCTGCT**TGCCGGAGCC**-----
ST258A CTGAACGCCCTGCT**TGCCGGAGCC**GTGCTGGCGGCGATCTACCTGCTGGGGATCTGGGAC

ST258B -----
ST258A GGGTTCTTCGCCCTCGTTGGGGGTGACCGCGCTGCTGGCGGCGACCCCGGCGCTGGTGGGA

ST258B -----
ST258A CCGGAAAACCTGATGCAGGCCGGGGCCATCACTATGTTGACGGTGCGCCTGGGCTCGGTG

ST258B -----
ST258A ATTTCCGGATGATCGGGCGCCTGCTGCTGGCCACCGGCGGCTGGCCTGGAACCTTTGGC

ST258B -----
ST258A CTGGCGGCGGGGACCTTTATCACCACCTTAACCCTGCTGCGTCTGCCGAGCTGCCG

ST258B -----
ST258A CCGCCTCCGACCGCGGAGCATCCGCTGCGCTCCCTGCTGGCGGGGCTGACCTTCCTC

ST258B -----CGTTATCGGCGGGATTGCGCTGCTTGGCGGTCTGCTGACCATGGCCAGC
ST258A **TGCCGGAGCC**CGCTTATCGGCGGGATTGCGCTGCTTGGCGGTCTGCTGACCATGGCCAGC

ST258B GCGGTGCGGGTGTCTATCCGGCGCTGGCCGG**TAG**CTGGCAGATGTCGGCCGGACAGATT
ST258A GCGGTGCGGGTGTCTATCCGGCGCTGGCCGG**TAG**CTGGCAGATGTCGGCCGGACAGATT

ST258B GGCTGCTGTACGCCGCTATTCCGCTCGGTGCGGCGCTGGGGCGTTGACCAGCGGCCAG
ST258A GGCTGCTGTACGCCGCTATTCCGCTCGGTGCGGCGCTGGGGCGTTGACCAGCGGCCAG

ST258B CTGGCCCAGACGGTGCAGCCGGGCGCGCTGATGCTGGCAGCAGCGTGGGATCGTTTGTG
ST258A CTGGCCCAGACGGTGCAGCCGGGCGCGCTGATGCTGGCAGCAGCGTGGGATCGTTTGTG

ST258B GCCATTGCGCTGTTTACGCTGATGCCGCACTGGGCATTGGGCGGCTGTGCCTGGCGCTG
ST258A GCCATTGCGCTGTTTACGCTGATGCCGCACTGGGCATTGGGCGGCTGTGCCTGGCGCTG

ST258B TTTGGCTGGCTGAGCGCTATTAGCTCGCTGCTGCAGTACACCCTGATTCAGACCCAGACG
ST258A TTTGGCTGGCTGAGCGCTATTAGCTCGCTGCTGCAGTACACCCTGATTCAGACCCAGACG

ST258B CCGGAACATATGCTCGGGCGGATTAACGGTCTGTGGACCGCGCAAACGTCACCGGCGAC
ST258A CCGGAACATATGCTCGGGCGGATTAACGGTCTGTGGACCGCGCAAACGTCACCGGCGAC

ST258B GCCATCGGCGCGGCGCTGCTCGGCGGCTTAGGGGCGGTAATGACGCCGGCGGCATCCGCC
ST258A GCCATCGGCGCGGCGCTGCTCGGCGGCTTAGGGGCGGTAATGACGCCGGCGGCATCCGCC

ST258B AGCGCCAGCGGCTGGGCGCTGGCGCTTGTTCGGTGTGCTGCTGGTTGGGCTGCTACGCGAG
ST258A AGCGCCAGCGGCTGGGCGCTGGCGCTTGTTCGGTGTGCTGCTGGTTGGGCTGCTACGCGAG

ST258B CTGCGCCGTTTCCAGCGCCCGAAATTGTCAACGAAAGTTAA
ST258A CTGCGCCGTTTCCAGCGCCCGAAATTGTCAACGAAAGTTAA

B)

ST258a 1 MNRQSWLLNLSLLKTHPAFRAVFIARFISILSLGLLGVAIPVQIQMMTHSTWQVGLSVTL
ST258b 1 MNRQSWLLNLSLLKTHPAFRAVFIARFISILSLGLLGVAIPVQIQMMTHSTWQVGLSVTL

ST258a 61 TGASMFVGLMVGVLADRYERKRLILLARGTCGVGFVGLCLNALLPEPSLAAIYLLGIWD
ST258b 61 TGASMFVGLMVGVLADRYERKRLILLARGTCGVGFVGLCLNALLPEPAYRRDCAAWRSA

ST258b 121 GFFASLGVTALLAATPALVGRENLMQAGAITMLTVRLGSVISPMIGLLLATGGVAWNFG
ST258b 121 DHGQRGAGALSGAGR-----

ST258a 181 LAAAGTFITTLTLLRLPQLPPPPQPREHPLRSLLAGLTFLCRSPLIGGIALLGGLLTMAS
ST258b 181 -----

ST258a 241 AVRVLYPALAGSWQMSAGQIGLLYAAIPLGAALGALTSGQLAQTVRPGALMLATTVGSFV
ST258b 241 -----

ST258a 301 AIALFSLMPHWALGALCLALFGWLSAISLLQYTTLIQQTPEHMLGRINGLWTAQNVTGD
ST258b 301 -----

ST258a 361 AIGAALLGGLGAVMTPAASASASGWALALVGVLVGLLRELRRFQRPEIVNES
ST258b 361 -----

Figure S1