

hASIC1a s1D4 V10V L30L

ATGGA^AACTGAAGGCCGAGGAGGAGGAG^{GTC}GGTGGCGTCCAGCCG^gt^gAGCATCCAGGCCTTCGCCAGCAGCT
CCACACTGCACGGC^{CTC}GCCCACATCTTCTCCTACGAGCGG^Ct^gTCTCTGAAGCGGGCACTGTGGGCCCTGTG
CTTCCTGGGCTCGCTGGCTGTGCTGCTGTGTGTGTGCACGGAGCGTGTGCAGTACTACTTCCACTACCACCAT
GTCACCAAGCTCGACGAGGTGGCTGCCTCTCAGCTTACCTTCCCTGCTGTACGCTGTGCAACCTCAACGAGT
TCCGCTTTAGCCAAGTCTCCAAGAATGACCTGTATCATGCTGGGGAGCTGCTGGCCCTGCTCAACAACAGGTA
TGAGATAACCAGACACACAGATGGCAGATGAAAAGCAGCTGGAGATACTGCAGGACAAAGCCAAC^TTCCGCAGC
TTCAAACCCAAACCCTTCAACATGCGTGAGTTCTACGACCGAGCTGGGCACGACATTCGAGACATGCTGCTCT
CCTGCCACTTCCGGGGGGAGGTCTGCAGCGCTGAAGACTTCAAGGTGGTCTTACACGCTATGGAAAGTGCTA
CACGTTCAACTCGGGCCGAGATGGGCGGCCGCGCTGAAGACCATGAAGGGTGGGACGGGCAATGGGCTGGAA
nTCATGCTGGACATCCAGCAGGACGAGTACCTGCCTGTGTGGGG^gAGACTGACGAGACGTCTTTCGAAGCAG
GCATCAAAGTGCAGATCCATAGTCAGGATGAACCTCCTTTTCATCGACCAGCTGGGGCTTTGGCGTGGCCCCAGG
CTTCCAGACCTTTTGTGGCCTGCCAGGAGCAGCGGCTCATCTACCTGCCCCACCCTGGGGCACCTGCAAAGCT
GTTACCATGGACTCGGATTTGGATTTCTTCGACTCCTACAGCATCACTGCCTGCCGCATCGACTGTGAGACGC
GCTACCTGGTGGAGAACTGCAACTGCCGCATGGTGCACATGCCAGGGGATGCCCCATACTGTACTCCAGAGCA
GTACAAGGAGTGTGCAGATCCTGCTCTGGACTTCTTGGTGGAGAAGGACCAGGAGTACTGCGTGTGTGAAATG
CCTTGCAACCTGACCCGCTATGGCAAAGAGCTGTCCATGGTCAAGATCCCCAGCAAAGCCTCAGCCAAGTACC
TGGCCAAGAAGTTCAACAAATCTGAGCAATACATAGGGGAGAACATCCTGGTGTGCTGGACATTTTCTTTGAAGT
CCTCAACTATGAGACCATTGAACAGAAGAAGGCCTATGAGATTGCAGGGCTCCTGGGTGACATCGGGGGCCAG
ATGGG^gCTGTTCATCGGGGCCAGCATCCTCACGGTGTGAGCTCTTTGACTACGCCTACGAGGTCATTAAGC
ACAAGCTGTGCCGACGAGGAAAATGCCAGAAGGAGGCCAAAAGGAGCAGTGC GGACAAGGGCGTGGCCCTCAG
CCTGGACGACGTCAAAGACAcAACCCGTGCGAGAGCCTTCGGGGCCACCCTGCCGGG^atGACATACGCTGCC
AACATCCTACCTACCATCCGGCCCCGAGGCACGTTTCGAGGACTTTACC^{TGCACAGAGACCAGCCAAGTGGCGC}
CTGCCTGA

All of the following positions were mutated to TAG

F69: TTC (205-207)

Y71: TAC (211-213)

V80: GTG (238-240)

E177: GAG (529-531)

T236: ACT (706-708)

T239: ACG (715-717)

D253: GAT (757-759)

W287: TGG (859-861)

K343: AAG (1027-1029)

E344: GAG (1030-1032)

D351: GAC (1051-1053)

E355: GAG (1063-1065)

K356: AAG (1066-1068)

D357: GAC (1069-1071)

E413: GAA (1237-1239)