

hASIC1a-1D4 V10V L30L

ATGGAACTGAAGGCCGAGGAGGAGGAGGTCGGTGGCGTCCAGCCGGTGAGCATCCAGGCCTTCGCCAGCAGCTCCA  
CACTGCACGGCCTCGCCCACATCTTCTCCTACGAGCGGCTGTCTCTGAAGCGGGCACTGTGGGCCCTGTGCTTCCTGG  
GCTCGCTGGCTGTGCTGCTGTGTGTGTCACGGAGCGTGTGCAGTACTACTTCCACTACCACCATGTCACCAAGCTCG  
ACGAGGTGGCTGCCTCTCAGCTTACCTTCCCTGCTGTACGCTGTGCAACCTCAACGAGTCCGCTTTAGCCAAGTCTC  
CAAGAATGACCTGTATCATGCTGGGGAGCTGCTGGCCCTGCTCAACAACAGGTATGAGATACCAGACACACAGATGG  
CAGATGAAAAGCAGCTGGAGATACTGCAGGACAAAGCCAACCTCCGCAGCTTCAAACCCAAACCTTCAACATGCGT  
GAGTTCTACGACCGAGCTGGGCACGACATTGAGACATGCTGCTCTCCTGCCACTTCCGGGGGGAGGTCTGCAGCGC  
TGAAGACTTCAAGGTGGTCTTACACGCTATGGAAAAGTGCTACACGTTCAACTCGGGCCGAGATGGGCGGCCGCGGC  
TGAAGACCATGAAGGGTGGGACGGGCAATGGGCTGGAA<sup>n</sup>TCATGCTGGACATCCAGCAGGACGAGTACCTGCCTGT  
GTGGGGGGAGACTGACGAGACGTCCTTCGAAGCAGGCATCAAAGTGCAGATCCATAGTCAGGATGAACCTCCTTTCA  
TCGACCAGCTGGGCTTTGGCGTGGCCCCAGGCTTCCAGACCTTTGTGGCCTGCCAGGAGCAGCGGCTCATCTACCTGC  
CCCCCCCTGGGGCACCTGCAAAGCTGTTACCATGGACTCGGATTTGGATTTCTTCGACTCCTACAGCATCACTGCCTG  
CCGCATCGACTGTGAGACGCGTACCTGGTGGAGAAGTCAACTGCCGCATGGTGCACATGCCAGGGGATGCCCCAT  
ACTGTACTCCAGAGCAGTACAAAGGAGTGTGCAGATCCTGCTCTGGACTTCTGGTGGAGAAGGACCAGGAGTACTGC  
GTGTGTGAAATGCCTTGCAACCTGACCCGCTATGGCAAAGAGCTGTCCATGGTCAAGATCCCCAGCAAAGCCTCAGCC  
AAGTACCTGGCCAAGAAGTTCAACAAATCTGAGCAATACATAGGGGAGAACATCCTGGTGTGCTGGACATTTTCTTTGAA  
GTCCTCAACTATGAGACCATTGAACAGAAGAAGGCCTATGAGATTGCAGGGCTCCTGGGTGACATCGGGGGCCAGAT  
GGGgCTGTTTCATCGGGGCCAGCATCCTCACGGTGTGCTGGAGCTCTTTGACTACGCCTACGAGGTCATTAAGCACAAGCT  
GTGCCGACGAGGAAAATGCCAGAAGGAGGCCAAAAGGAGCAGTGCGGACAAGGGCGTGGCCCTCAGCCTGGACGA  
CGTCAAAAGACAcAACCCGTGCGAGAGCCTTCGGGGCCACCCTGCCGGG<sup>a</sup>TGACATACGCTGCCAACATCCTACCTCA  
CCATCCGGCCCCGAGGCACGTTTCGAGGACTTTACCTGCACAGAGACCAGCCAAGTGGCGCCTGCCTGA

blue colour: silent mutations at V10 and L30 to reduce susceptibility to re-initiation

green colour: 1D4-tag for purification

underlined: positions mutated to TAG

orange colour: F352 mutated to L (TTC to TTG)