

Table A. Primers used in in the GeneTailor™ site-directed mutagenesis reactions

Expression Plasmid	Mutation Site	Template	Primers (Forward –mutations sites are underlined- and Reverse)
pcDNA3.1-mNrf2 [?] ETGE 2S/2A-V5/HisB	S335A S338A	pcDNA3.1-mNrf2 [?] ETGE -V5/HisB	5'-GAATTCAATGACTCTGAC <u>GCTGGCATTGCA</u> CTGAACACGA-3' 5'-GTCAGAGTCATTGAATTCCATTGTGCCTTC-3'
EYFP-Nrf2 ⁽³¹⁷⁻³⁷²⁾ 2S/2A-V5	S335A S338A	EYFP-Nrf2 ⁽³¹⁷⁻³⁷²⁾ -V5	5'-GAATTCAATGACTCTGAC <u>GCTGGCATTGCA</u> CTGAACACGA-3' 5'-GTCAGAGTCATTGAATTCCATTGTGCCTTC-3'
pcDNA3.1-mNrf2 [?] ETGE S335A-V5/HisB	S335A	pcDNA3.1-mNrf2 [?] ETGE -V5/HisB	5'-TGGAATTCAATGACTCTGAC <u>GCTGGCATTTCAC</u> -3' 5'- GTCAGAGTCATTGAATTCCATTGTGCCTTC-3'
pcDNA3.1-mNrf2 [?] ETGE S338A-V5/HisB	S338A	pcDNA3.1-mNrf2 [?] ETGE -V5/HisB	5'-ATGACTCTGACTCTGGCATT <u>GCA</u> CTGAACACGA -3' 5'-AATGCCAGAGTCAGAGTCATTGAATTCCAT -3'
pcDNA3.1-mNrf2 [?] ETGE 4S/4A-V5/HisB	S342A S347A	pcDNA3.1-mNrf2 [?] ETGE 2S/2A-V5/HisB	5'-CTGGCATTGCACTGAACACGG <u>CTCCCAGCCGAGCGGCC</u> CCAGAGCACT-3' 5'-CGTGTTCAAGTGCAATGCCAGCGTCAGAGTC-3'
EYFP-Nrf2 ⁽³¹⁷⁻³⁷²⁾ 4S/4A-V5	S342A S347A	EYFP-Nrf2 ⁽³¹⁷⁻³⁷²⁾ 2S/2A-V5	5'-CTGGCATTGCACTGAACACGG <u>CTCCCAGCCGAGCGGCC</u> CCAGAGCACT-3' 5'-CGTGTTCAAGTGCAATGCCAGCGTCAGAGTC-3'
EYFP-Nrf2 ⁽³¹⁷⁻³⁷²⁾ S342A/S347A-V5	A335S A338S	EYFP-Nrf2 ⁽³¹⁷⁻³⁷²⁾ 4S/4A-V5	5'-GAATTCAATGACTCTGACT <u>CTGGCATTTC</u> ACTGAACACG-3' 5'-GTCAGAGTCATTGAATTCCATTGTGCCTTC-3'
pcDNA3-Flag-β-TrCP1 ^{R285E}	R285E	pcDNA3-Flag-β-TrCP1	5'-AGAAAATAGTAAGCGGCCTT <u>GAA</u> GACAACACAA-3' 5'-AAGGCCGCTTACTATTTTCTGATCATA-3'
pcDNA3-Flag-β-TrCP1 ^{R410E}	R410E	pcDNA3-Flag-β-TrCP1	5'- TTGTTTCTGCATCTGGGGAT <u>GAA</u> ACTATAAAGG-3' 5'- ATCCCCAGATGCAGAAACAATGTACTTGTGTC-3'
pcDNA3-Flag-β-TrCP1 ^{R431E}	R431E	pcDNA3-Flag-β-TrCP1	5'-GGACCTTAAATGGACACAAAG <u>AA</u> GGCATTGCCT-3' 5'- TTTGTGTCCATTTAAGGTCCTTACAAATTC-3'
pcDNA3-Flag-β-TrCP1 ^{R474E}	R474E	pcDNA3-Flag-β-TrCP1	5'- AAGGCCATGAGGAATTGGT <u>GAA</u> TGTATTTCGAT-3' 5'- CACCAATTCCTCATGGCCTTCTAACACTCG-3'
pcDNA3-Flag-β-TrCP1 ^{R521E}	R521E	pcDNA3-Flag-β-TrCP1	5'-CCTTGTGGAGCATTCCGG <u>AGA</u> AGTTTTTTCGAC-3' 5'-TCCGGAATGCTCCACAAGGGTCCGTAGACA-3'