

Supplementary Table 2. Primers used for site-directed mutagenesis. Sequences of primers used for site-directed mutagenesis of pGEX6-P3 or pcDNA3.1 expression vectors, coding for GST-CK1 δ and His-CK1 δ , respectively. Abbreviations: fwd, forward; rev, reverse.

mutant	nucleotide exchange	primer	primer sequence
A36V	GCC-GTC	fwd	5'-gcaggagaagaggtgtcatcaagcttgaatgtg-3'
A36V	GCC-GTC	rev	5'-cacattcaagcttgatgacaacctcttctcctgca-3'
L25V	CTC-CCC	fwd	5'-cttcggagacatctatcccggtagcgacattgctg-3'
L25V	CTC-CCC	rev	5'-cagcaatgtccgtaccggatagatgtctccgaag-3'
R115H	CGC-CAC	fwd	5'-cttgctgaccaaagatgatcagtcacatcgaatacattcattcaaag-3'
R115H	CGC-CAC	rev	5'-cttgaatgaatgtattcgatgtgactgatcattggctcagcaag-3'
R127L	CGG-CTG	fwd	5'-aaagaacttcatccacctggatgtgaagccagaca-3'
R127L	CGG-CTG	rev	5'-tgtctggcttcacatccaggtggatgaagttctt-3'
R127Q	CGG-CAG	fwd	5'-aaagaacttcatccaccaggatgtgaagccagaca-3'
R127Q	CGG-CAG	rev	5'-tgtctggcttcacatcctgggtggatgaagttctt-3'
I148M	ATC-ATG	fwd	5'-ggcaacctggtgtacatcatggacttcgggct-3'
I148M	ATC-ATG	rev	5'-agcccgaagtcctatgatgtacaccaggttgcc-3'
R160H	CGC-CAC	fwd	5'-taccgggatgcacacaccaccagcac-3'
R160H	CGC-CAC	rev	5'-gtgctggtgggtgtgtgcatcccgga-3'
R160P	CGC-CCC	fwd	5'-taccgggatgcacccaccaccagcac-3'
R160P	CGC-CCC	rev	5'-gtgctggtgggtgggtgcatcccgga-3'
R160S	CGC-AGC	fwd	5'-taccgggatgcaagcaccaccagcac-3'
R160S	CGC-AGC	rev	5'-gtgctggtgggtgcttgcaccccgga-3'
R168H	CGT-CAT	fwd	5'-ccagcacatcccctatcatgagaacaagaacctca-3'
R168H	CGT-CAT	rev	5'-tgaggttcttgttctcatgataggggatgtgctgg-3'
R178W	CGG-TGG	fwd	5'-cggggacggcgtggtacgcctcc-3'
R178W	CGG-TGG	rev	5'-ggaggcgtaccacgccgtccccg-3'
E247K	GAA-AAA	fwd	5'-gtaaaggctacccttccaaattgccacatacctg-3'
E247K	GAA-AAA	rev	5'-caggtatgtggcaaattggaaggtagcctttac-3'
L252P	CTG-CCG	fwd	5'-cgaatttgccacataccgaatttctgcccgttcct-3'
L252P	CTG-CCG	rev	5'-aggaacgggcagaaattcgggtatgtggcaaattcg-3'
R299Q	CGG-CAG	fwd	5'-tgggtccagccaggccgccgatg-3'
R299Q	CGG-CAG	rev	5'-catcggcggcctggctggcacca-3'
R316G	AGA-GGA	fwd	5'-gaggagcggctgggacactcgcgga-3'
R316G	AGA-GGA	rev	5'-tccgcgagtgtcccagccgctcctc-3'
Q399*	CAG-TAG	fwd	5'-ctcgcatgtccacctcatagattcctggtcg-3'
Q399*	CAG-TAG	rev	5'-cgaccaggaatctatgaggtggacatgcgag-3'

H414Y	CAC-TAC	fwd	5'-gtcttcagtctgtcgtgtaccgatgaggatccaag-3'
H414Y	CAC-TAC	rev	5'-cttggatcctcatcggtacacgacagactgaagac-3'