

Table S1

I: PCR Primers used for construction of the pXT7 containing N-truncated *jShak1* and S2 mutants

<u>Primer</u>	<u>Function</u>	<u>Direction</u>	<u>Sequence 5'-3'</u>
WJG1182	pXT7cloning wt	sense	GGCTCGAGCCACCATGATGTTTGTAGCCACTAA
WJG1173	pXT7cloning wt	antisense	GGACTAGTTTTTAAAGGATAAGTACACGAGCCGTTT
WJG2037	Δ 23 N-trunc	sense	GGCTCGAGCCACCATGGAAGACAATGCAGA
WJG1246	Internal primer	antisense	GGACTAGTCGATGGTTCACAGCGCAGACGTATATTG
WJG1062	N227E overlap	sense	CTGTGG <u>GAGAC</u> CGGCTGTAATATGCTGGTTTAC
WJG1063	N227E overlap	antisense	GCCG <u>TCT</u> CCACAGTAAACATCCACGTC
WJG1064	N227D overlap	sense	CTGTGG <u>ACAC</u> CGGCTGTAATATGCTGGTTTAC
WJG1065	N227D overlap	antisense	GCCG <u>IGT</u> CCACAGTAAACATCCACGTC
WJG1149	5' flanking	sense	GCCCGTATTTGCCCCAAAAG
WJG1181	3' flanking	antisense	CGTAACATGCTGAACGATCC

Primers used for construction of *jShak1* plasmids and mutations. Underlined bases indicate the codons that were altered during mutagenesis.