

Table S1. Primers used in this study.

Name	Primer sequence	Purpose
Gs1KL-F	ATGGTGCCGAAATGGTCGTATGA	Gene clone and RT-PCR
Gs1KL-R	TCAAATACATGTTTTAGCAATTAAG	
Gs1-q-F	TCCTAAGCCAATGGGAGATG	qPCR
Gs1-q-R	CAGAAATGCCTACACGACAC	
Actin3-F	AACACCCCGTCCTGCTCACTG	
Actin3-R	GGGCGAGACGTGTGATTTCCT	
sw-F	TTCGTA CTGGCTCTTCTCGT	
sw-R	CAAAGTTGATAGCAATTCCT	Sequencing primers
1180-F	ATAACGAAGCTGTGCAATAG	
1180-R	CAACTGTTGGGAAGGGCGAT	
GS1-1180EGFP-F	GACGAGCTGTACAAGGGATCCATGGTG	Subcellular localization amplification primers
	CCGAAATGGTCGTATGA	
GS1-1180EGFP-R	CTGATTATGATCTAGAGTCGCGGCCGCTC	
GS1-pctf-F	AAATACATGTTTTAGCAATTAAG	Prokaryotic expression vector construction
	GAAGGTAGGCATATGGAGCTCATGGTG	
GS1-pctf-R	CCGAAATGGTCGTATGA	
GS1-pctf-R	AGACTGCAGGTCGACAAGCTTTCAAAT	Sequencing primers
	ACATGTTTTAGCAATTAAG	
PCOLD-F	ACGAGCTGATGAACCAGCAGGCG	
PCOLD-R	CGCGATCGATTATTTATTTCTTG ATTCC	Site-directed mutagenesis vector construction
Glu79Ala-F	TGGTTTGGTATA GCA CAAGAATACACAA	
Glu79Ala-R	GTGCTATACCAAACCATGGTTCTTGGTC	
Arg265Ala-F	GGCATTTCTGAT GCA AGTGCCTCGATAC	
Arg265Ala-R	TTGCATCAGAAATGCCTACACGACACGA	
Arg286Ala-F	TACTTTGAAGAT GCA AGACCTGCAGGCA	
Arg286Ala-R	TTGCATCTTCAAAGTATCCTTTGCCTTC	
Glu81Ala-F	GGTATAGAACA GC ATACACAATGTTCG	
Glu81Ala-R	ATGCTTGTTCTATACCAAACCATGGTTC	
Arg245Ala-F	AAGAAG GCG TTGGTAGGAAAAT	
Arg245Ala-R-5	TCCTACCAACGCCTTCTTGTTATCT	Promoter cloning
promoter-F	CAACACATATCACTTGGTGTTTG	
promoter-R	TTCTAAATCACAAGGCTCC	Promoter expression
promoter-pGL3-F	GCGTGCTAGCCCGGGCTCGAGCAACAC	

	ATATCACTTGGTGTTTG	vector construction
promoter-pGL3-R	CAGTACCGGAATGCCAAGCTTTTCTAAA TCACAAGGC	
abd-A-KL-F	ATGCGAAGGCGAGGACGACAAAC	
abd-A-KL-R	TTACACGGCTCGTAGTTCTTTCTTT	
abd-A-domain-F	ATGAGTTCCAAGTTCATCATCGA	Transcription factor
abd-A-domain-R	TTACGTGGGGACCTTGTTCACTTTG	amplification primers
dsxKL-F	ATGGTGTTCGATGGGCTCATGGAAAC	
dsxKL-R	GGTATCAGTGGTGGCATGGTTGGCG	
abd-A-1180-F	TGTTAGAGGATTGGTGGATCCATGCGA AGGCGAGGACGACAAAC	
abd-A-1180-R	CTGATTATGATCTAGAGTCGCGGCCGCT TACACGGCTCGTAGTTCTTTCTTT	Transcription factor
1180Damain-dsx-F	TGTTAGAGGATTGGTGGATCCATGGATT ACAAGGATGACGACGATAAGGCCCTCC	vector construction
	TAACTGTGCG	
1180Damain-dsx-R	CTGATTATGATCTAGAGTCGCGGCCGCT CACTGGGCCCCGTCTGATTGCCGTTTGC	
Dsx-pctf-F	GAAGGTAGGCATATGGAGCTCATGGTGT CGATGGGCTCATGGAAAC	
Dsx-pctf-R	AGACTGCAGGTCGACAAGCTTGGTATC AGTGGTGGCATGGTTGGCG	Prokaryotic
abdA-pctf-F	GAAGGTAGGCATATGGAGCTCATGCGA AGGCGAGGACGACAAACT	expression vector
abdA-pctf-R	AGACTGCAGGTCGACAAGCTTTTACAC GGCTCGTAGTTCTTTCTTT	construction
dsx-q-F	GGATGGAGTTGGATAGGCCT	Sequencing primers
dsx-q-R	GGTATCAGTGGTGGCATGGT	
abd-A-Probe-F	biotin- ATTATATTATTAATTATTACTGTAC	
abd-A-Probe-R	GTACAGTAATAATTAATAATATAAT	
dsx-Probe-F	biotin- ATTTTTTAAACAATGTACTGCTTTA	Probe sequence
dsx-Probe-R	TAAAGCAGTACATTGTTTAAAAAAT	
dsx-cold-Probe-F	ATTTTTTAAACAATGTACTGCTTTA	
dsx-cold-Probe-R	TAAAGCAGTACATTGTTTAAAAAAT	

Mut-dsx-Probe-F	CGGGGGGCCCACCGTGCAGTAGGGC
Mut-dsx-Probe-R	GCCCTACTGCACGGTGGGCCCCCG

Note: Underlined sequences indicate restriction enzyme sites, red-colored bases denote mutated nucleotides, and bolded regions represent homology arms.