

## Additional File 2. Primer sequences for site-directed mutagenesis of PkNBPXb-II

Gene	Cysteine	Primer Sequence
pknbpxb-II	First Cysteine	MPC1: 5' GGATTATGTT <u>G</u> GTGTCATGAATAATGATGATAATATAATTTCTTTATTCCG 3'
	Second Cysteine	MPC2: 5' TCGGAGTATGAAGGA <u>A</u> GCTCCAATCAGACTTCTG 3'
	Third Cysteine	MPC3: 5' GTATTTTACATGA <u>A</u> GCGATGAAAAGAAATTATAACAAACATAAAGAGG 3'
	Fourth Cysteine	MPC4: 5' ATAGATCATATGGAT <u>G</u> GCGACTGGACTAACTACTGTCC 3'
	Fifth Cysteine	MPC5: 5' TGCAGCTGGACTAACTAC <u>G</u> GTCCAACAGGTACATATTAC 3'
	Second Cysteine Reversion Mutation	MPCR2: 5' TCGGAGTATGAAGGA <u>A</u> TGCTCCAATCAGACTTCTG 3'
	Third Cysteine Reversion Mutation	MPCR3: 5' GTATTTTACATGA <u>A</u> TGCATGAAAAGAAATTATAACAAACATAAAGAGG 3'
	Fourth Cysteine Reversion Mutation	MPCR4: 5' ATAGATCATATGGAT <u>I</u> GCGACTGGACTAACTACTGTCC 3'
	Fifth Cysteine Reversion Mutation	MPCR5: 5' TGCAGCTGGACTAACTAC <u>I</u> GTCCAACAGGTACATATTAC 3'