

Figure S1. The mutation of SNPs caused the change of amino acid sequence (red maker).

1	MAYHSHYRDGETEALCGNDLSGVIRLVTAETNPRLVISILCCRKCDAG	50
1	MAYHSHYRDGETEALCGNDLSGVIRLVTAETNPRLVISILCCRKCDAG	50
51	ASKAVVNGLAPGSNGQDKATADPLRARSISAVKIIPVKTVKNSAGLVLP	100
51	ASKAVVNGLAPGSNGQDKATADPLRARSISAVKIIPVKTVKNSAGLVLP	100
101	DMDPTRICTGKGAVTLRASSSYREIPSSSPVSPQETPKQERKTVLESENS	150
101	DMDPTRICTGKGAVTLRASSSYREIPSSSPVSPQETPKQERKTVLESENS	150
151	SADEWRLSSNADANGNAQPSSLAAGYRSVHPSLPSSKPQDATSSSPAPP	200
151	SADEWRLSSNADANGNAQPSSLAAGYRSVHPSLPSSKPQDATSSSPAPP	200
201	EVIVVPLYRVNTDRGHEGTD RPPASLGPHGPPVPAAPAGSPLTFPTLDD	250
201	EVIVVPLYRVNTDRGHEGTD RPPASLGPHGPPVPAAPAGSPLTFPTLDD	250
251	FIPPHLQRRSHMSQPASAPGSLPPASQTTPSFSPQPPLVPPVPEGLRRVS	300
251	FIPPHLQRRSHMSQPASAPGSLPPASQTTPSFSPQPPLVPPVPEGLRRVS	300
301	EPDLTGAVSSTDSSPLLNEVSSSHAGADSQTFAVSKPSSAYPSTTIVNP	350
301	EPDLTGAVSSTDSSPLLNEVSSSHAGTDSQTFAVSKPSSAYPSTTIVNP	350
351	TIVLLQHNRREQQKRLSSLSDPVSERRAGEQDSAPAEKPTSPGRAAERKA	400
351	TIVLLQHNRREQQKRLSSLSDPVSERRAGEQDSAPAEKPTSPGRAAERKA	400
401	KDSRRVAKSAQDLSDVCMDEVGIPLRNTERSKD WYKTMFKQIHKLNRDT	450
401	KDSRRVAKSAQDLSDVCMDEVGIPLRNTERSKD WYKTMFKQIHKLNRDT	450