

**S1 Table. The primers used in this study.**

<b>Usage</b>	<b>Primer Name</b>	<b>Sequence (5'-----3')</b>
<b>Fine mapping</b>	SSR192609-b	F:CTCTGTTCCGCGAAACGT
		R:ACTACCTGCTCAAGCTCCC
	SSR194164-c	F:TGGAGCAGCAGAGTTGGACG
		R:TGCAACGCCTGAGCGAGA
	SSR217401-a	F:TCACGCCACTTCCCTCATC
		R:GCACCACCAGCGGTCAAT
	SSR204586-b	F:CTTCTGCCTCGCCTCCACG
		R:GCTACTCGGCTACTCCACTTCA
	Indel557-1	F:CGAAACCGAGTCCGAATCCC
		R:GCTTACGGCTCCACGAGAACAT
	SSR194454-h	F:AGATGACTTTCATGGACGTT
		R:TTGGGGCATTGATTGTTA
	SSR194456-j	F:TAGACGTAAGTTGTTTAAGG
		R:GTCGCTTGACCTGATTAC
<b>Y2H construct</b>	22-kD $\alpha$ -zein	F:GATCGAATTCTTCATTATTCCACAATGCTCACTTGCTCCT
		R:GATCGGATCCCTAAAAGATGGCACCTCCAACGATCG
	19-kD $\alpha$ -zein	F:AAAAGAATTCACAATTTTCCCTCAATGCTCACAAGCTCC
		R:AAAAGGATCCCTAAAAGAGGGCACCAATGATGTGT
	15-kD $\beta$ -zein	F:AAAAGAATTCAGCGCCTCTGCAATGCAGATGCCC
		R:AAAAGGATCCTCAGTAGTAGGGCGGAATGGCAGCGGAG
	16-kD $\gamma$ -zein	F:AAAAGAATTCTCCAGTACAAGCGGCGGCTGTGGCT
		R:AAAACTCGAGTCAGTAGTAGACACCGCCGGCAGCTGC
	27-kD $\gamma$ -zein	F:AGCTGAATTCCATACAAGCGGCGGCTGCGGCTGC
		R:AAAAGGACTTTCAGTGGGGGACACCGGCCGGC
	50-kD $\gamma$ -zein	F:CGCCATATGACACAGACAGGCGGCTGCAGC
		R:GATCGGATCCTTATTTTGGTAGTATGAGTGGTAC
	10-kD $\delta$ -zein	F:GATCGAATTCATGACGCATATTCCAGGGCACT
		R:GATCGGATCCCTAGAATGCAGCACCAACAAAG
	O1-Tail	F:GCGGAATTCATGGCTGCAAATGAAGCT
		R:GCCTGCAGCTATTGGGCAGGCTGTGGAT
	FL1	F:GCGAATTCATGGGCGGCAATAATGACG
		R:CAGGATCCCTACTTCTTATCTCTGTCATCCTC
HIP	F:ATGGCCATGGAGGCCATGGGGAAGCCCCGGG	
	R:GCGGATCCTTATGCATAGTGCATATGCTCTAGTA	
<b>qRT-PCR</b>	O10	F:ATACCCTTGCTTGTGATG
		R:GCTGAAGTCTGATGGCTC
	Ubiquitin	F:CTGGTGCCCTCTCCATATGG
		R:CAACACTGACACGACTCATGACA
	10-kD $\delta$ -zein	F:TCTCCTAGCTCTTTGTGCAAGCG
		R:ATGGCATGACTGGTGGCAAGTG
	15-kD $\beta$ -zein	F:CATTCCGCCCTACTACTGATTC
		R:ATGATAATGTGTGTCGTCTTACTGC
	16-kD $\gamma$ -zein	F:TCTGAGTCTTGCTATCGAGGATGG
		R:GACCACCAACATTTCTCTCATCCC

18-kD $\delta$ -zein	F:ACTCTGATTCCATCTCGCACAT
	R:AACAAAGGGCTGCTGTAAAAAC
19-kD $\alpha$ -zein	F:GCTCCTTGGTCTTTCTGCAA
	R:GGTAACTGCTGTAATAGGGCTGATG
22-kD $\alpha$ -zein	F:TTCCACAATGCTCACTTGCT
	R:GTTGTTGTAAGACGCTCGCC
27-kD $\gamma$ -zein	F:CCTCAGTGCCAGTCGTTGCG
	R:TGGAGGACCAAGCCGAAGAT
50-kD $\gamma$ -zein	F:GTGCGGTGGCAATCTTGAC
	R:TCTTCAATTGCAAACACCACTAA