

**Table S3** Sequences and lengths of motifs among watermelon SOD proteins

Motif	Conserved amino acid sequences	Width
1	HGFHVHALGDTTNGCJSTGPHFNPEGKDHGAPEDENRHAGDLGNIVAGED	50
2	TITDSQIPLVGPNSIJGRAVVVHADPDDLKGGHELSTTGNAGARVGCG	50
3	FGLKPPPYDLDALEPYMSRETLELHWGKHHRAYVDNLNKQLEQ	43
4	MKKAVAVLGGSSGVSGETIFFSQEGDPTTVTGRISGLKPGL	41
5	WEHAYYLDYKNDRPDY	16
6	TYNKGDPLPZFNNAAQIWNHDFWESIKPGGGGKPKGELLZQIEKDFGSF	50
7	FGSGVWVWL	8
8	FMDNLISWEAADGRLQKAECE	21
9	IWEVINWDF	9
10	LCSCDG	6