

**Table S1.** Oligonucleotides used for Arabidopsis TRXs cloning.

Gene	Accession Number	Oligo Name	Sequence	Cloning
<i>TRXf1</i>	At3g02730	f1ENT5PROM	CACCACTGTCTCCGCCTGAG	pGWB4
		f1ENT3	TCCTCCGGAAGCAGCAGAC	
		5Atf1N	GGGGCATATGGTTGGTCAGGTGACGGAGGT	pET28b
		3Atf1B	GGGGGGATCCTCATCCGGAAGCAGCAGACCTCG	
<i>TRXf2</i>	At5g16400	f2ENT5PROM	CACCAAACCTCGAGTCTTTCAGTGC	pGWB4
		f2ENT3	TCCGCCTGACCTTGCTGCTTC	
		5Atf2N	GGGGCATATGGTTGGCCAGGTGACGGAGGT	pET28b
		3Atf2B	GGGGGGATCCTCAGCCTGACCTTGCTGCTTCAA	
<i>TRXm1</i>	At1g03680	m1ENT5PROM	CACCCCTGTGATAGTTGTACACAAG	pGWB4
		m1ENT3	CAAGAAATTTGTTGATGCTGGTTGC	
		5Atm1N	GGGGCATATGCACACTGCTACAGGAATTCCAGTGG	pET28b
		3Atm1B	GGGGGGATCCTCATTACAAGAATTTGTTGATGCTGG	
<i>TRXm2</i>	At4g03520	m2ENT5PROM	CACCCAGCGAGCTAAAGTGACATC	pGWB4
		m2ENT3	TGGCAAGAACTTGTCGAGGC	
		5Atm2N	GGGGCATATGGAACTACTACCGATATTCAAGTGGTCA	pET28b
		3Atm2B	ATGA GGGGGGATCCCGAGATCTTACAGACTCCAC	
<i>TRXm3</i>	At2g15570	m3ENT5PROM	CACCGTCCAATAATTTCCCCACGGAG	pGWB4
		m3ENT3	TGAGTTCAAGACTCTTTCAATGGCG	
		5Atm3N	GGGGCATATGGCTGAAGTTACACAACGATC	pET28b
		3Atm3B	GGGGGGATCCTCATGAGTTCAAGACTCTTTCAA	
<i>TRXm4</i>	At3g15360	m4ENT5PROM	CACCGGAGAGAGTAGGGAAAATGGAG	pGWB4
		m4ENT3	CTCGACCAAGAATCTTTCTATAGTTTTCTCC	
		5Atm4N	GGGGCATATGGACACCACTGCCGCCGCCGT	pET28b
		3Atm4B	GGGGGGATCCTCACTCGACCAAGAATCTTTCTATAGTT TCT	

For pGWB4 cloning, cDNAs were first cloned into the pENTR™ vector. Underlined sequences show restriction sites *Nde*I (CATATG) and *Bam*HI (GGATCC).