

SUPPLEMENTARY APPENDIX

This appendix has been provided by the authors to give readers additional information about their work.

Supplement to:

Recombinant expression of *Thermosynechococcus elongatus* BP-1 glutathione S-transferase in *Arabidopsis thaliana*: an efficient tool for phytoremediation of thiocyanate

Jian-Jie Gao, Ling Zhang, Ri-He Peng, Bo Wang, Hui-Juan Feng, Zhen-Jun Li and Quan-Hong Yao

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Table S1 Nucleotide sequence alignment of wild-type and PTDS synthesized *TeGST*.

	10	20	30	40	50	60	70
1	ATGCTCAAGCTCTATGGCGGCGCCAAATCCCGCGCCAGTATTGTCCGCTGGTATTTAGAAGAACTAGGCATT						
2	ATGCTCAAGCTCTATGGTGGTGCAAAGTCACGTGCATCTATTGTCCGTTGGTACTTGGAAGAACTTGGTATT						
3	M L K L Y G G A K S R A S I V R W Y L E E L G I						
	80	90	100	110	120	130	140
1	CCCTATGAGTTTGTGCTCATAGATCTCCAAGCCGGGAACAACATCAACCTGAATTTCTCAAACCTCAACCCT						
2	CCATACGAGTTCGTCCTCATCGACCTCCAAGCAGGTGAACAACATCAACCTGAGTTCCTCAAGCTCAACCCT						
3	P Y E F V L I D L Q A G E Q H Q P E F L K L N P						
	150	160	170	180	190	200	210
1	ATGGGTAAAGTGCCCGTGATCGTCGATGGCGATGTGGTGCTTTGGGAATCAGGGGCGATTTTGCTCTATCTT						
2	ATGGGTAAGGTTCTGTCTCATCGTTGATGGTGATGTCGTCCTTTGGGAATCTGGTGCAATCTTGCTCTACCTT						
3	M G K V P V I V D G D V V L W E S G A I L L Y L						
	220	230	240	250	260	270	280
1	GCCCAAGTTCACGGTGAATTACCCAAGGACGCGGCAGCCGCGCCCAAGTTATCAGTGGGTGCTGTTTGCC						
2	GCACAAGTCCATGGTGAACCTCCTAAGGATGCAGCAGCAGCAGCACAAGTCTATCAGTGGGTCTGTTTCGCA						
3	A Q V H G E L P K D A A A A A Q V Y Q W V L F A						
	290	300	310	320	330	340	350
1	AACTCTACCCTGACCCAGGCAATGTTTCCTGCCGAAACGCGGATCGCCAGCTTCCACCACTGCTCAAGGGC						
2	AACTCCACTCTGACTCAGGCAATGTTCCCTGCTGAAACTCGTGATCGTCAGCTTCCACCACTGCTCAAGGGT						
3	N S T L T Q A M F P A E T R D R Q L P P L L K G						
	370	380	390	400	410	420	430
1	ATTGAGACGGCTCTCATGGGCAATCCTACATTCTGGGCAAGGACTTTTCGGTAGCCGATGTCGCCCTAGGG						
2	ATTGAGACTGCACTCATGGGTCAATCATACTCTGGGTAAGGACTTCTCTGTTGCAGATGTTGCACTTGGT						
3	I E T A L M G Q S Y I L G K D F S V A D V A L G						
	440	450	460	470	480	490	500
1	TCAATGCTGGCCTATCTCCAGATGCTCTTTCAGGTGGACTTGAGTCCCTATCCTGCCGTAGCGGATTATGTG						
2	TCAATGCTGGCATATCTCCAGATGCTCTTCCAGGTTGACTTGTCACCATAACCCTGCTGTTGCTGACTACGTC						
3	S M L A Y L Q M L F Q V D L S P Y P A V A D Y V						
	510	520	530	540	550	560	
1	GCCCGCTTGCAACAACGACCTGCCTTTTCAGAAGGGTTAATGGGAGCGAGGGCATGA						
2	GCACGTCTGCAACAACGTCCTGCATTCCAGAAGGGTTGATGGGTGCACGTGCATAA						
3	A R L Q Q R P A F Q K G L M G A R A -						

1 Wild-type *TeGST*

2 PTDS synthesized *TeGST*

3 Amino acid sequence