

Supporting Information

Article

Effects of Low Temperature on Antioxidant and Heat Shock Protein Expression Profiles and Transcriptomic Responses in Crayfish (*Cherax destructor*)

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Table S1. Primer sequences of anti-stress genes.

Gene name	Forward sequence	Reverse sequence
<i>HSP20</i>	CAATAAACATCAAGAGGGAG	CAGCATAATATGGAGGAAAA
<i>HSP21</i>	GATCTGTTTACCGCGAGTA	CTGTTACCCCAACCAAGT
<i>HSP60</i>	GAGGTGGAAGTGAATGAG	AAGGCAAGGTGTCTGTAT
<i>HSP70</i>	CAATTTAGTTTGGTGGGTAT	CTCTTTGCCAGTTCCTTT
<i>HSP90</i>	ACTTCTACGATGGGCTAC	TCTGTCTGAGGGTTTCTAT
<i>CSP</i>	AGTTTGGCATCACTGGTA	CTTCTCCCTTCTTCTGTT
<i>18S</i>	CACTCCTGCCCTACTGCT	TGGCTCCATCAAACATACC

Table S2. Primer sequences of transcriptome validation.

Gene ID	Gene name	Gene description	Forward sequence	Reverse sequence
MSTRG.1480 6.2	<i>PSMC5</i>	26S proteasome regulatory subunit 8	ATTATGGCAACAAATCG C	CTGGCATCATCTCAGCA A
MSTRG.1381 2.2	<i>ATP5PD</i>	ATP synthase subunit d	TCCCAGATCACGCAATC A	TCCTCGGCAACTTCCTT T
MSTRG.1043 .1	<i>HEMOCYANIN</i> <i>IN</i>	hemocyanin	ACAGGCTGACCCTAAAC A	TTCGCTGACCTCAACAT C
MSTRG.7155 .2	<i>MAPK14</i>	mitogen-activated protein kinase p38	GCCAAGCAACATAGCA GT	GTCAGCACCAGGAAAC AG
MSTRG.7191 .1	<i>CACYBP</i>	calcyclin-binding protein-like	TACCGTGACTGGAACAA T	CCAACTCTACATGACCC T
MSTRG.1339 5.5	<i>MTHFR</i>	One carbon pool by folate Antifolate resistance	CCTGAAGCCACGTCTTA T	TTTATGCCAACTGCTCT AC
MSTRG.1735 0.2	<i>CHITINASE</i>	chitinase	GCTACTGCCACGACCAA A	TGCCTCCAACATGATAC TGA
MSTRG.2797 0.1	<i>AKP</i>	alkaline phosphatase	AAGACTTACAGCGGAG ACAA	GACAATGCCAGTAGAA CGAC
MSTRG.8132 .1	<i>CAT</i>	catalase	GGTGGGCAGTACCAGA GT	CAGGTGAGGTGTTGAGG C
MSTRG.2289 1.6	<i>AKR1B1</i>	aldo-keto reductase family 1 member B1-like	TTACAGCCTACAGTCCT CTT	TGGAATCACAATCAACC C
MSTRG.1755 .1	<i>GGTI</i>	glutathione hydrolase 1 proenzyme-like isoform X1	GGCACTGTTTATGAGGA G	TGAATACTGACATTTAC CG
MSTRG.9419 .1	<i>β-1,3-GA</i>	beta-1,3-glucanase	GCAACCAGTATGGAGGC A	CCACCGAAGTCCCAGAA A
MSTRG.1248 2.1	<i>TAG</i>	triacylglycerol lipase	TGACTACCGAGGATGGC TAC	TGGAGAAAGATGGGAG GG
MSTRG.295. 15	<i>CELLULASE</i>	cellulase	CGCCTCCCTCGTCTAC AT	CACCATACCCACTCG TTG
MSTRG.3022 .1	<i>18S</i>	18S rRNA	CACTCCTGCCCTACTGC T	TGGCTCCATCAAACATA CC