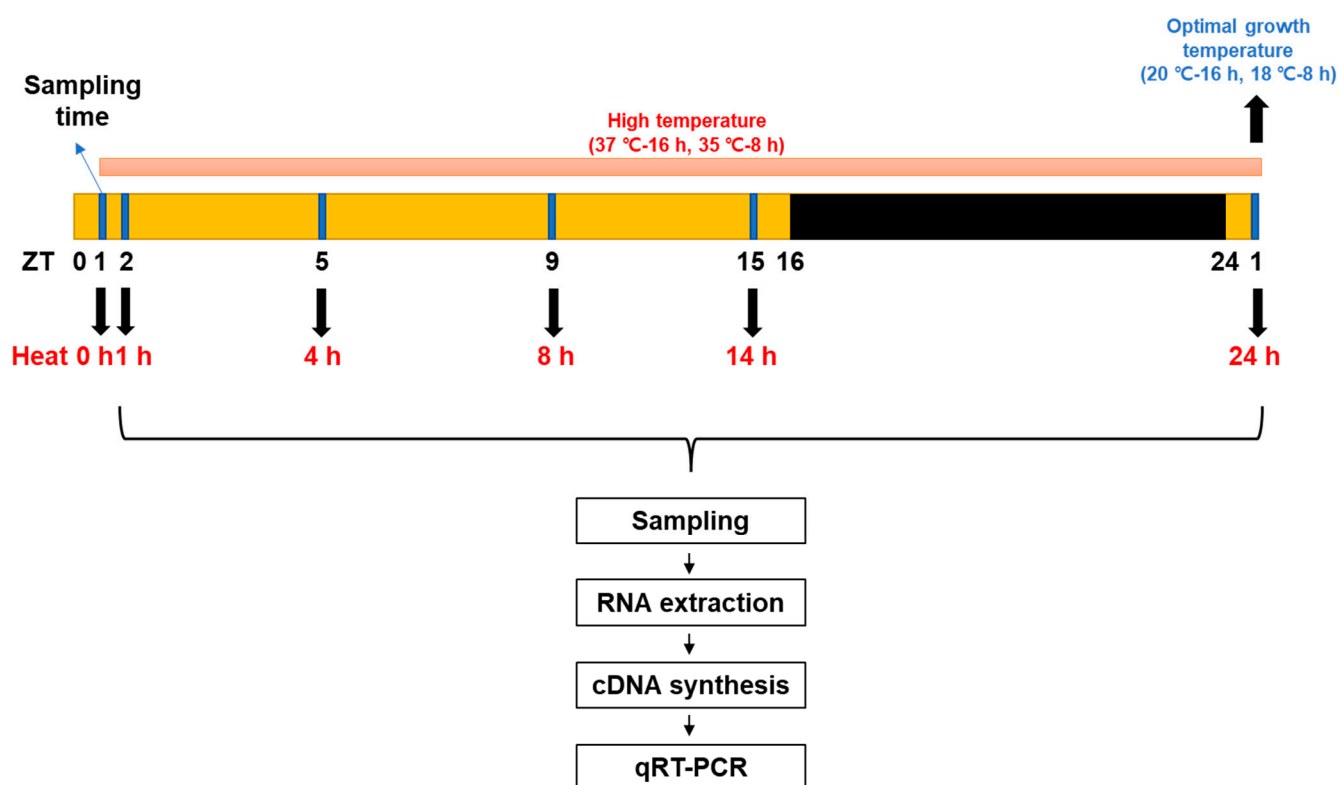


# Supplementary Materials: Expression Profiling of Heat Shock Protein Genes as Putative Early Heat-Responsive Members in Lettuce

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**Table S1.** Sequences of primers used in qRT-PCR.

Gene name	Forward (5–3')	Reverse (5–3')	Gene ID/Ref.
<i>Lshsp70-2711</i>	AGGATGCGATTGATGAGGCGATTG	CACCTGCTCCACCTTGATACATCTTC	LOC111902198
<i>LsHSP70A</i>	AGCTGAGGATAAAGTTGGTGG	CTCATCTTCCGCCTTATACC	LOC111912265
<i>LsHSP70B</i>	TCTAAGCGGTGAAGGCAACC	TCGGAATGGTGGTGTTCGT	LOC111909436
<i>LsHSP17.3A</i>	GGTGGAGGACGACAGGATAC	CACTGCTGCGTTCCACACGA	LOC111907241
<i>LsHSP17.9A</i>	GCCGAAGACGATTCAAGTAC	CGCACTTCACTAGGATCCTTC	LOC111883736
<i>LsHSP17.9B</i>	CGTTGCCCGGAAAATGCCAATTT	GGACCTGAATCGTCTTCGGC	LOC111883707
<i>LsHSP70C</i>	AAACCGCCGGAGTTAAGAATAA	CTCCGCCTTGACCTCTCTG	LOC111878184
<i>LsSHSPA</i>	CCTCATCCACCACCATATCC	TACCAGTCCTCGTTGGGAAC	LOC111903402
<i>LsHSP83A</i>	CTGTGCAAGACGATCAAGGA	ACTCCCCAGTCACCAAACAG	LOC111888460
<i>LsHSP17.9C</i>	CGGATAAGATATCTGCGATTTG	CTGATTACCGACATACCAGCA	LOC111883742
<i>LsHSP17.9D</i>	TATGGAGAAGATATCGGCGATT	GAATCGTCTTCGGCTTCTTTG	LOC111883705
<i>LsHSP70D</i>	TGGTGCAGGAAGCGGAGAAA	TACGCATAGTTCTCCAACGTG	LOC111909434
<i>LsHSP83B</i>	AAAGTGGTGGTTTCCGACAG	CGCCTTCATTATCCTCTCCA	LOC111876685
<i>LsHSP17.3B</i>	TCCATCCGATGCGTCGACG	TAAACACGTGCGCCTCCGGT	LOC111880347
<i>LsHSP17.8A</i>	GAGAGGAGCAAGGAACATGA	CAGCCTGAATCTCCTCAAGA	LOC111888905
<i>LsHSP15.7</i>	ACTTGGCGATCCATTCAAG	CGAACCAATCCATGAGACCT	LOC111904729
<i>LsHSP17.8B</i>	AGGCAGAAGGAGCAACGTAT	TGATTCGGGTAGGTTGTTGA	LOC111888937
<i>LsHSP17.9E</i>	CAAGAAGCCGAAGACGATC	CATACGAGCGATCCCATTTCA	LOC111883704
<i>LsSHSPB</i>	GGAGCAGAACACTCTGGTGA	TCTTCAGCTCCGCCTTTATTT	LOC111892899
<i>LsHSP70E</i>	CCATTTGGGAGGAGATGACT	GACGTTGAAGCGCTTGTTTAT	LOC111901569
<i>LsHSP17.3C</i>	AAACCTCTGCCTTGGTGAAC	TTTCTCTCGCCACTGATTTGTA	LOC111907242
<i>LsHSP17.5</i>	CTCGACATCTGGGATCCTTT	GATCGGAGAGAGAACGGAAG	LOC111905717
<i>LsHSP22</i>	AGACCCATTCAAGGTTCTGG	CTCCCTCTTCAACCCTGGTA	LOC111891650
<i>LsHSP17.4</i>	ACTGGAGACACCAAGGAAC	TTCTCTTCCCATTGCTTCTC	LOC111910362
<i>LsHSP18.1</i>	GGCTGAAGAAAGAGGAGGTG	CTTCCCGGAGCTTCTCTCTA	LOC111888907
<i>UBQ21</i>	TCTTAGATCACCGTCCCATCGT	TCTGAGATTGTCCGAGGATATGAG	[22]



**Figure S1.** Schematic representation of experimental design used for heat treatment on lettuce. The diagram illustrates the experimental photoperiod (16 h light), heat treatment period (pink bar - 24 h), zeitgeber time (ZT, time after light onset), sampling time (blue bar) and experimental flow for qRT-PCR analyses.

<i>LsHSP70-2711</i>	1 h	4 h	8 h	14 h	24 h
37 °C	3.76	2.18	2.43	1.64	1.86
20 °C (Control)	1	1	1	1	1

### Intensity of expression signals

**Figure S2.** Relative expression level of a heat shock protein gene, *LsHSP70-2711* at different time points examined under the heat stress condition in lettuce. Relative expression of a heat shock protein gene *LsHSP70-2711* in lettuce at indicated time points under the heat stress condition (37 °C).