

The avian-specific small heat shock protein HSP25 is a constitutive protector against environmental stresses during blastoderm dormancy

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Supplementary Table S1. Primers used for quantitative real-time PCR

Accession No.	Gene	Primer sequences	
		Forward (5'→3')	Reverse (5'→3')
NM_204305 (Chicken)	<i>GAPDH</i>	GGTGGTGCTAAGCGTGTTAT	ACCTCTGTCATCTCTCCACA
XM_015873412 (Quail)	<i>GAPDH</i>	GGGAAGTTGTGGAGGGATGG	GGTTGGCACACGGAAAGCCA
NM_001198610 (Zebra finch)	<i>GAPDH</i>	GGGAAGTTGTGGAGGGATGG	GGTTGGCACACGGAAAGCCA
NM_205518	<i>ACTB</i>	AGGAGATCACAGCCCTGGCA	CAATGGAGGGTCCGGATTCA
NM_001010842 (Chicken)	<i>HSP25</i>	AGTTCATGAGCAGCTTCGAG	GTGTTCTGCGTCTCCTTCTG
XM_015885650 (Quail)	<i>HSP25</i>	AGTTCATGAGCAGCTTCGAG	GTGTTCTGCGTCTCCTTCTG
NM_001245736 (Zebra finch)	<i>HSP25</i>	AGTTCATGAGCAGCTTCGAG	CTTG TAGGAGAAGGAGCCCT
XM_003642832 (Chicken)	<i>HSP30CL</i>	GGCAGTTCATGAGCAGCTTC	ACTTG TAGGAGAAGGAGCCC
XM_015885649 (Quail)	<i>HSP30CL</i>	TGGAGATGGAGAGAGCTCGG	ACTTG TAGGAGAAGGAGCCC
XM_004174664 (Zebra finch)	<i>HSP30CL</i>	TGGAGATGGAGAGAGCTCGG	ACTTG TAGGAGAAGGAGCCC
NM_205290	<i>HSPB1</i>	CGTGCCCTTCACCTTCCTCA	TGGGCAGCAGACGGAAGTATC
NM_001001527	<i>HSPB2</i>	GGCCTCGGATCAACAAGCAG	TCTCGGGAGATGAAGCCGTG
XM_001231557	<i>HSPB3</i>	CTGCCGAGGAGCTGGAAGAA	CTGGGCGAAACTGCACAACA
NM_001030797	<i>HSPB4</i>	TTACCATCCAGCACCCCTGG	GAAATGCCCGACTCCAGCAC
NM_205176	<i>HSPB5</i> (<i>CRYAB</i>)	CCAGGGCCATTCAAGAGCAC	CGTGGCTTCCTTGAGCCAAC
XM_427836	<i>HSPB7</i>	CCCGGATGCAAACAAGAAGC	TTGGTGACCTTCCAGGTGGG
XM_415280	<i>HSPB8</i>	GCGTCAACGTGCACAGCTTC	AGGCGAAGACAGTGATGGGG
XM_418368	<i>HSPB10</i>	GCTTTTTGGAGGACCACGAG	GTTTTCTCCGTACACTGGCC
NM_001277613	<i>HSPB11</i>	TGGCTTTCCCAAGAGTGTGA	TCACCCTGTGCACTGATACA
NM_001146142	<i>NANOG</i>	AACTCTGCGGGGCTGTCTTG	AAAAGTGGGGCGGTGAGATG
NM_001110178	<i>POUV</i>	TGAAGGGAACGCTGGAGAGC	ATGTCACTGGGATGGGCAGAC
NM_205188	<i>SOX2</i>	CCCCTTTCATACCCCTCCCT	CGGGCTGTTCTTCTGGTTGTT
NM_204700	<i>CRIPTO</i>	CGACACAGCGCAAAGCAAT	AGCCCTTCATCACCCAGTCG
NM_205339	<i>BCL2</i>	CTTTATCCTCCTGCCCTCG	TTCTTCCGCTTCGTCAGCAA
NM_001025304	<i>BCL2L1</i>	TTCAGCGACCTCACCTCCCA	GCCCCAGTTCACACCATCA
NM_001031215	<i>CAT</i>	TCAGAAGCCAGATGCCTTGA	CCTTTCGCATGCACA ACTCT

NM_001277853	<i>GPX1</i>	CATGTTGCGAGAAGTGCGAGG	AAGTTCCAGGAGACGTCGTT
NM_001277854	<i>GPX2</i>	CTTCTACGACCTCAGTGCCA	TGAGGCAGTTGAGGATCTCC
NM_001163232	<i>GPX3</i>	GAACTCCGAGATCCTCCCTG	GGCTCCCAGAAGAGGTTCTT
XM_003642871	<i>GPX4</i>	GAGGTGGCGGGATGGGTT	GTACTGCTCCAGGGACACAT
NM_001163245	<i>GPX7</i>	AAGCCTTCCTCTTCCTTCCC	GACAACCTAACGACACCGAGC
XM_423834	<i>GPX8</i>	GGTTGTAAACGTGGCGAGTT	TTCCCTTTGGCAAAGCCTC
XM_421555	<i>PTEN</i>	CCGTTGGTCAACTTTGCTCA	CATGTCCCCAGGTAACCACT
XM_416328	<i>DRAM1</i>	GTGGCCTTTGGTTTCGTCTT	TGCTCCTCTGCAATTCTCCA
NM_001006332	<i>BECN1</i>	GCTGAAGCTCGATACCTCCT	ATTCTGGCTGGTGGGATGAA
NM_001030839	<i>UVRAG</i>	AAGTACTTGGGGCAGCAGAT	AGCTCTGTGAAGCCTAAGCA
XM_003643073	<i>ATG12</i>	AGTTGTCTGCTTGCATGGTG	ATCGGTTCCAGTGCCACTTA
NM_001006409	<i>ATG5</i>	GGGCATGTAACTGCTTGCT	CGGTGAAGAAAAGCAGCAGT
NM_001030592	<i>ATG7</i>	ATCAAGAGACACAGGCTGCT	TCATGGCAGTCAGAATGGGT
NM_001031461	<i>MAP1LC3B</i>	TGTACGAGAGCGAGAAGGAC	GCGTAGGTGACATCCGTTTC

Supplementary Table S2. List of *HSP25*-specific siRNA sequences for knockdown experiments

Accession No.	Gene	Sequences	Start position
NM_001010842	<i>HSP25</i>	S 5'-GAGAAGGCUCGGCAGUUCA UU-3' AS 5'-UGAACUGCCGAGCCUUCUC UU-3'	296
		S 5'-CAGAAGGAGACGCAGAACA UU-3' AS 5'-UGUUCUGCGUCUCCUUCUG UU-3'	497
N/A	Non-specific siRNA [#]	S 5'-CCUACGCCACCAAUUUCGU-3' AS 5'-GGAUGCGGUGGUUAAAGCA -3'	N/A

[#] The non-specific siRNA has no complementary sequence in the chicken genome and was used as a control for gene silencing.