

# **Heat shock factor 1 protects germ cell proliferation during early ovarian differentiation in medaka**

Fumiya Furukawa<sup>1</sup>, Shin Hamasaki<sup>1</sup>, Seiji Hara<sup>1</sup>, Tomoya Uchimura<sup>1</sup>, Eri Shiraishi<sup>1</sup>, Natsumi Osafune<sup>1</sup>, Hisanori Takagi<sup>1</sup>, Takashi Yazawa<sup>2</sup>, Yasuhiro Kamei<sup>3</sup> & Takeshi Kitano<sup>1</sup>

<sup>1</sup>Department of Biological Sciences, Graduate School of Science and Technology, Kumamoto University, Kumamoto 860-8555, Japan. <sup>2</sup>Department of Biochemistry, Asahikawa Medical University, Asahikawa, Hokkaido 078-8510, Japan. <sup>3</sup>Spectrography and Bioimaging Facility, National Institute for Basic Biology Core Research Facilities, National Institute for Basic Biology, Okazaki 444-8585, Japan. Correspondence and requests for materials should be addressed to T.K. (email: tkitano@kumamoto-u.ac.jp)

**Supplementary Table S1.** Genes examined by RNA-seq analysis. Value log<sub>2</sub> (fold-change) represents the logarithm of FPKM.

Gene	FPKM		log <sub>2</sub> (fold change)
	WT	HSF1 KO	
<i>hsf1</i>	19.9736	10.7239	-0.897268
<i>hsf2</i>	10.1859	5.88019	-0.792643
<i>hsf2bp</i>	1.71990	1.45330	-0.242992
<i>hsf4</i>	0.0614395	0.0566860	-0.116174
<i>hsp70.1</i>	56.4562	2.54311	-4.47247
<i>hsp90aa1.1</i>	163.257	40.0666	-2.02667
<i>hsp90aa1.2</i>	31.1258	16.4092	-0.923608
<i>hsp90ab1</i>	2341.12	2081.86	-0.169329
<i>hsp90ab1</i>	1032.48	933.118	-0.145978
<i>hsp90b1</i>	283.355	363.5365	0.359490
<i>hspa12a</i>	4.95635	2.67977	-0.887172
<i>hspa12b</i>	1.49872	0.775428	-0.950667
<i>hspa13</i>	7.27108	9.80543	0.431410
<i>hspa14</i>	15.2382	19.7159	0.371672
<i>hspa4a</i>	20.9678	10.6189	-0.981541
<i>hspa4b</i>	84.59250	76.96310	-0.13636
<i>hspa4l</i>	4.78437	4.08554	-0.227802
<i>hspa5</i>	324.034	394.317	0.283209
<i>hspa8</i>	50.4852	36.3321	-0.474616
<i>hspb1</i>	508.726	224.961	-1.17722
<i>hspb11</i>	110.193	466.370	2.08145
<i>hspb15</i>	41.6360	43.2955	0.0563857
<i>hspb8</i>	58.3947	187.963	1.68654
<i>hspbap1</i>	5.17284	7.33334	0.503514
<i>hsbp1</i>	25.2838	25.4804	0.0111775
<i>hspd1</i>	7.90706	5.96997	-0.405419
<i>hspd1</i>	123.841	162.144	0.388788

<i>hspe1</i>	375.510	555.975	0.566167
<i>hspg2</i>	7.97305	6.72602	-0.245379
<i>foxl2</i>	0.179343	0.206517	0.203543
<i>cyp19a1a</i>	0.0631787	0.0865760	0.454530
<i>cyp19a1b</i>	0.512715	0.576616	0.169455
<i>gsdf</i>	4.92977	4.05337	-0.282398
<i>amh</i>	3.15737	2.75156	-0.198472
<i>amhr2</i>	0.67471	1.89983	1.493540
<i>dmrt1</i>	0	0	
<i>dnd</i>	0.51471	0.150731	-1.771770
<i>bax</i>	33.6838	59.6666	0.824869
<i>caspase8</i>	21.52380	50.5877	1.232850
<i>caspase9</i>	4.62048	8.33648	0.851397
<i>efl</i>	3594.24	3437.81	-0.0641978

---