

10.1071/RD15504_AC

© CSIRO 2017

Supplementary Material: *Reproduction, Fertility and Development*, 2017, 29(9), 1868–1881.

Supplementary Material

Regulation of heat-inducible *HSPA1A* gene expression during maternal-to-embryo transition and in response to heat in *in vitro*-produced bovine embryos

Jean-Marc Lelièvre^{A,E,G}, Nathalie Peynot^A, Sylvie Ruffini^A, Ludivine Laffont^A, Daniel Le Bourhis^{A,B,F}, Pierre-Marie Girard^{C,D} and Véronique Duranthon^A

^AUMR BDR, INRA, ENVA, Université Paris Saclay, 78350 Jouy-en-Josas, France.

^BUNCEIA R&D, 13 Rue Jouët, 94704 Maisons-Alfort, France.

^CInstitut Curie, PSL Research University, CNRS UMR3347, INSERM U1021, 91405 Orsay, France.

^DUniversité Paris-Sud, Université Paris-Saclay, Rue Georges Clémenceau, 91405 Orsay, France.

^EPresent address: Micalis Institute, INRA, AgroParisTech, Université Paris-Saclay, 78350 Jouy-en-Josas, France.

^FPresent address: Biotechnologie de l'Embryon, Allice, Station de Phénotypage, 37380 Nouzilly, France.

^GCorresponding author. Email: jean-marc.lelievre@inra.fr

Table S1. Sequence of the primers used in this work and size of the corresponding amplicons

Name	Accession number	Primer sequence (final concentration nM)	Amplicon size (bp)
Luciferase (Bui <i>et al.</i> 2009)	M15077	F: AGAGATACGCCCTGGTCCT (100 nM) R: ATAAATAACGCGCCAACAC (100 nM)	259
HSPA1A (Sagirkaya <i>et al.</i> 2006)	U09861	F: GACAAGTGCAGGAGGTGATT (200 nM) R: CAGTCTGCTGATGATGGGTTA (200 nM)	117
YWHAZ (this work)	BM446307	F: CTGTCTTGTCAACCAACCATTCT (200 nM) R: TAGTCTGTGGGATGCAAGCAA (200 nM)	123
GAPD (Goossens <i>et al.</i> 2005)	XM_61801 3	F: TTCAACGGCACAGTCAAGG (200 nM) R: ACATACTCAGCACCAGCATCAC (200 nM)	119
SDHA (Goossens <i>et al.</i> 2005)	NM_17417 8	F: GCAGAACCTGATGCTTG (200 nM) R: CGTAGGAGAGCGTGTGCTT (200 nM)	185

References

Bui, L.C., Evsikov, A.V., Khan, D.R., Archilla, C., Peynot, N., Henaut, A., Le Bourhis, D., Vignon, X., Renard, J.P., and Duranthon, V. (2009) Retrotransposon expression as a defining event of genome reprogramming in fertilized and cloned bovine embryos. *Reproduction* **138**(2), 289–299.

Goossens, K., Van Poucke, M., Van Soom, A., Vandesompele, J., Van Zeveren, A., and Peelman, L.J. (2005) Selection of reference genes for quantitative real-time PCR in bovine preimplantation embryos. *BMC Dev Biol* **5**, 27.

Sagirkaya, H., Misirlioglu, M., Kaya, A., First, N.L., Parrish, J.J., and Memili, E. (2006) Developmental and molecular correlates of bovine preimplantation embryos. *Reproduction* **131**(5), 895–904.