

Additional file 1–Housekeeping genes.

Symbol	TaqMan® Assay ID	Name	Function
<i>18S</i>	Hs99999901_s1	18 S ribosomal	Ribosomal RNA
<i>ABL1</i>	Hs00245445_m1	Abelson murine leukaemia viral 1	Non-receptor tyrosine protein kinase
<i>ACTB</i>	Hs99999903_m1	Beta-actin	Cytoskeletal structure
<i>B2M</i>	Hs99999907_m1	Beta-2-microglobulin	Defense/immunity protein
<i>CASC3</i>	Hs00201226_m1	Cancer susceptibility candidate 3	Nonsense-mediated mRNA decay (NMD)
<i>CDKN1A</i>	Hs00355782_m1	Cyclin-dependent kinase inhibitor 1A	Regulation of cell growth and cell response to DNA damage
<i>CDKN1B</i>	Hs00153277_m1	Cyclin-dependent kinase inhibitor 1B	To stop or slow down the cell division cycle.
<i>EIF2B1</i>	Hs00426752_m1	Eukaryotic translation initiation factor 2B (Translation initiation factor eIF-2B subunit alpha)	Catalyzes the exchange of eukaryotic initiation factor 2-bound gdp for GTP.
<i>ELF1</i>	Hs00152844_m1	74-like factor 1 (ETS-related transcription factor Elf-1)	Protein, sequence-specific DNA binding, transcription activator activity and transcription factor activity.
<i>GADD45A</i>	Hs00169255_m1	Growth arrest and DNA-damage-inducible, alpha	Binds to proliferating cell nuclear antigen. Stimulates DNA excision repair in vitro and inhibits entry of cells into S phase.
<i>GAPDH</i>	Hs99999905_m1	Glyceraldehyde-3-phosphate dehydrogenase	Oxidoreductase, dehydrogenase
<i>GUSB</i>	Hs99999908_m1	Glucuronidase, beta	Galactosidase
<i>HMBS</i>	Hs00609297_m1	Hydroxymethyl-bilane synthase	Heme synthesis, porphyrin metabolism
<i>HPRT1</i>	Hs99999909_m1	Hypoxanthine guanine phosphoribosyl transferase 1	Glycosyltransferase
<i>IPO8</i>	Hs00183533_m1	Importin 8	Nuclear protein import
<i>MRPL19</i>	Hs00608519_m1	Mitochondrial ribosomal protein L19	Protein biosynthesis
<i>MT-ATP6, LOC100133315</i>	Hs02596862_g1	Mitochondrially encoded ATP synthase 6	Produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain.

<i>PES1</i>	Hs00362795_g1	Pescadillo homolog 1, containing BRCT domain	Component of the PeBoW complex, which is required for maturation of 28S and 5.8S ribosomal RNAs and formation of the 60S ribosome
<i>PGK1</i>	Hs99999906_m1	Phospho-glycerate kinase-1	Catalyzes the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate during glycolysis, generating one molecule of ATPX
<i>POLR2A</i>	Hs00172187_m1	DNA-directed RNA polymerase II subunit RPB1	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates.
<i>POP4</i>	Hs00198357_m1	Ribonuclease P protein subunit p29	Processing of precursor RNAs
<i>PPIA</i>	Hs99999904_m1	Peptidylprolyl isomerase A	Isomerase
<i>PSMC4</i>	Hs00197826_m1	Proteasome 26S subunit, ATPase, 4	Protease, hydrolase
<i>PUM1</i>	Hs00206469_m1	Pumilio, Drosophila, homolog of, 1	Protease, hydrolase
<i>RPL30</i>	Hs00265497_m1	60S ribosomal protein L30	Translation
<i>RPL37A</i>	Hs01102345_m1	Ribosomal protein L37a	Structural constituent of ribosome. Translation
<i>RPLP0</i>	Hs99999902_m1	Ribosomal protein, large, P0	Protein biosynthesis
<i>RPS17</i>	Hs00734303_g1	Ribosomal protein S17	Provides instructions for making a protein called ribosomal protein S17
<i>TBP</i>	Hs99999910_m1	TATA box binding protein	General RNA polymerase II transcription factor
<i>TFRC</i>	Hs99999911_m1	Transferrin receptor	Ion receptor
<i>UBC</i>	Hs00824723_m1	Ubiquitin C	Protein degradation
<i>YWHAZ</i>	Hs00237047_m1	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	Signal transduction by binding to phosphorylated serine residues on a variety of signaling molecule