

Sup Table 2 Nissan et al.

List of CT, relative quantification (RQ values) and statistical calculation for Mel-hESC, Mel-iPSC and HEM. p- value>0.01 is considered as non significant.

	HEM			Mel-hESC H9			Mel-hESC SA01			Mel-iPSC			RQ mel-hESC H9	p-value mel-hESC H9	RQ mel-hESC SA01	p-value mel-hESC SA01	RQ mel-iPSC	p-value mel-iPSC
ADCY2-Hs00392747_m1	24	25	24	24	24	23	24	24	24	25	25	25	2	0	3	0	2	0
AIM1-Hs00413464_m1	30	31	29	34	40	40	33	33	40	40	34	34	2	0	1	1	34	0
AP1B1-Hs00153906_m1	23	24	23	23	23	23	23	23	23	23	24	24	2	0	1	0	1	0
AP1M1-Hs00261227_m1	22	23	23	22	22	22	22	22	22	23	22	22	2	0	1	0	1	0
AP1S1-Hs00611076_m1	22	22	22	21	22	22	21	21	21	22	22	22	2	0	2	0	1	1
AP3B1-Hs00186383_m1	23	24	24	23	24	23	23	23	23	23	23	24	1	0	1	1	1	1
AP3D1-Hs00187577_m1	22	22	23	22	22	22	22	22	22	23	23	22	1	0	1	0	1	0
APAF1-Hs00559441_m1	24	25	25	25	26	25	24	25	25	25	25	25	2	0	1	1	2	0
ASIP-Hs00181770_m1	34	34	40	34	34	40	40	40	40	34	40	40	0	0	2	1	2	0
ATP2A2-Hs01566028_g1	21	21	21	21	21	21	20	21	21	22	22	22	2	0	2	0	2	0
ATP7A-Hs00921963_m1	25	25	25	24	24	24	24	24	24	24	25	25	1	0	1	0	1	0
B2M-Hs00187842_m1	19	19	19	19	19	19	20	20	20	19	19	19	1	0	1	1	1	1
BAD-Hs00188930_m1	27	26	26	27	28	27	26	27	27	28	27	28	2	0	1	0	3	0
BAX-Hs00180269_m1	22	22	22	21	22	21	21	21	21	22	22	22	1	0	1	0	1	0
BCL2-Hs00236808_s1	25	24	24	25	25	25	25	25	25	25	25	24	1	0	1	0	1	0
BID-Hs00609632_m1	25	26	26	25	25	26	25	25	26	26	26	27	2	0	2	0	2	0
BLOC1S1-RDH5-Hs00155241_m1	23	23	24	22	23	23	22	23	23	24	23	24	2	0	2	0	1	0
CALML6-Hs00758338_g1	30	28	32	33	31	34	31	28	31	29	30	32	2	1	0	0	2	0
CAMK2A-Hs00392405_m1	30	28	29	30	30	31	30	29	29	31	31	32	3	0	2	0	4	0
CASP3-Hs00234387_m1	24	24	24	24	24	24	24	24	24	24	24	24	1	0	1	0	1	0
CASP8-Hs01018151_m1	27	26	26	26	26	26	26	26	26	26	26	26	2	0	1	0	1	0
CDC42-Hs03044122_g1	20	20	20	20	21	20	20	20	20	20	20	20	1	0	1	1	1	0

CDH1-Hs01023894_m1	22	22	21	25	24	25	28	28	28	21	21	21	0	0	0	0	1	0
CREB1-Hs00231713_m1	24	24	24	24	24	24	23	23	24	24	23	24	1	1	1	0	1	0
CREBBP-Hs00231733_m1	24	24	24	24	24	24	24	24	24	24	24	24	1	1	1	0	1	0
CTNNB1-Hs00355045_m1	18	18	18	18	18	17	18	18	18	18	18	18	1	0	1	0	1	1
DCT-Hs01098278_m1	19	19	19	21	21	21	22	22	22	19	19	19	0	0	0	0	1	0
DCTN1-Hs00896389_g1	22	22	22	21	21	21	21	21	21	21	21	21	1	1	1	1	1	0
DTNBP1-Hs01105864_m1	23	24	24	23	23	24	24	24	24	23	24	23	1	0	1	1	1	1
DVL1-Hs00737028_m1	24	24	24	24	24	25	25	25	25	24	24	24	1	0	1	1	2	0
EDN1-Hs01115919_m1	30	30	31	40	40	35	34	40	40	34	33	36	0	0	0	0	12	0
EDNRB-Hs00240747_m1	19	19	20	20	21	20	21	21	21	20	20	20	0	0	1	0	1	0
F2RL1-Hs00173741_m1	29	31	30	34	33	33	32	30	32	40	40	34	31	0	6	0	101	0
FGFR2-Hs01552926_m1	34	36	38	34	33	40	31	32	40	33	33	40	2	0	1	1	0	0
FZD10-Hs00273077_s1	32	32	34	35	40	34	33	33	33	33	32	32	1	0	0	0	1	1
GADD45A-Hs00169255_m1	25	26	26	26	27	27	26	26	26	26	26	26	1	1	1	0	2	0
GNAI1-Hs01053355_m1	22	23	24	24	24	24	23	23	23	23	23	24	2	0	1	1	2	0
GNAO1-Hs00221365_m1	30	31	30	32	33	33	31	30	30	31	31	31	1	0	0	0	2	0
GNAS-Hs00255603_m1	19	19	19	19	19	19	19	19	19	19	19	18	1	0	1	0	1	1
GSK3B-Hs00275656_m1	23	23	23	23	23	23	23	23	23	23	23	23	1	0	1	0	1	0
HPS1-Hs00164907_m1	23	23	23	23	23	23	23	23	23	23	22	23	1	0	1	0	1	0
HPS3-Hs00289968_m1	24	24	24	23	24	23	23	23	23	23	23	23	1	0	1	0	1	0
HPS4-Hs00222984_m1	22	22	23	22	22	22	22	22	22	22	22	22	1	0	1	0	1	0
HRAS-Hs00610483_m1	25	25	25	24	25	24	24	24	24	26	26	25	3	0	2	0	2	0
IL1A-Hs00174092_m1	35	35	33	40	40	40	33	40	34	40	40	40	50	0	1	1	56	0
IL1B-Hs01555409_g1	28	29	29	34	38	40	31	31	30	37	33	40	16	0	0	1	66	0
IL6-Hs00985638_g1	30	30	29	31	40	34	30	32	34	32	34	35	3	0	1	1	14	0
KIT-Hs00174029_m1	22	22	22	22	22	23	23	24	24	21	21	21	0	0	1	0	1	0
KITLG-Hs00295067_s1	27	28	29	27	27	27	26	26	27	28	28	28	3	0	3	0	1	1

KTN1-Hs00192160_m1	22	22	22	22	22	22	21	22	22	22	21	22	1	1	1	0	1	0
LEF1-Hs00212390_m1	25	25	25	25	24	25	25	24	25	24	24	24	1	0	1	0	1	0
MAP2K1-Hs00983247_g1	25	23	24	24	24	24	24	23	24	25	25	25	2	0	1	0	2	0
MAPK1-Hs01046830_m1	22	22	22	22	22	22	21	22	22	22	22	22	1	0	1	0	1	0
MAPK14-Hs00176247_m1	24	24	24	23	24	23	23	23	24	24	24	24	1	0	1	0	1	0
MC1R-Hs00267168_s1	25	25	25	25	25	25	24	24	24	24	24	24	1	0	1	0	0	0
MITF-Hs01117294_m1	20	20	20	20	20	20	20	20	20	20	20	20	1	0	1	1	1	1
MLANA-Hs00194133_m1	19	19	19	19	19	19	19	19	19	19	19	19	1	0	1	0	1	1
MLPH-Hs00225445_m1	20	20	20	20	20	20	20	20	20	20	20	20	1	0	1	0	1	1
MYO5A-Hs00165309_m1	22	22	22	22	22	22	22	22	22	21	21	21	1	0	1	0	1	0
OCA2-Hs01562046_m1	21	21	21	21	22	22	20	20	20	20	20	20	1	1	0	0	1	0
PAX3-Hs00240950_m1	23	23	23	23	24	24	23	24	24	23	23	24	1	0	1	0	1	0
PCNA-Hs99999177_g1	22	23	22	21	21	21	20	20	20	22	22	22	4	0	2	0	1	1
PLCB1-Hs00248563_m1	25	26	26	28	28	28	31	31	30	33	32	34	5	0	26	0	172	0
PMEL-Hs00173854_m1	17	17	17	17	17	18	17	17	18	17	17	17	1	0	1	0	1	1
POLR2A-Hs00172187_m1	23	24	23	24	23	24	22	23	23	24	24	25	3	0	1	0	2	0
POMC-Hs01596743_m1	33	40	40	40	40	40	35	35	40	40	40	40	24	0	1	1	38	0
PPIA-Hs03045347_gH	19	19	19	19	19	19	19	19	19	19	19	19	1	0	1	0	1	0
PRKACA-Hs00427274_m1	23	23	23	22	22	22	22	22	22	23	22	23	1	0	1	0	1	0
PRKCA-Hs00176973_m1	24	24	24	25	25	25	24	24	24	24	24	25	1	0	1	0	2	0
PRKCB-Hs00176998_m1	23	23	23	22	22	22	22	22	22	24	23	24	2	0	2	0	2	0
PTGER1-Hs00168752_m1	34	34	32	32	33	33	32	32	33	34	33	37	3	0	2	0	2	0
PTGER3-Hs00168755_m1	32	31	35	40	36	40	30	33	33	34	33	35	6	0	0	0	3	0
RAB27A-Hs00608302_m1	22	22	22	21	21	21	21	21	21	22	22	22	1	0	1	0	1	1
RAB32-Hs00199149_m1	20	20	20	20	20	20	20	20	20	20	20	19	1	0	1	0	1	0
RAB38-Hs00223473_m1	20	20	20	19	20	20	20	20	20	20	20	20	2	0	2	0	1	0
RAB3A-Hs00374262_m1	25	26	26	25	25	25	25	25	25	26	25	26	2	0	1	0	1	0

RAC1-Hs01902432_s1	22	22	22	22	22	22	22	22	22	22	22	22	22	1	1	1	0	1	0
RAF1-Hs00234119_m1	25	25	26	25	26	25	25	25	26	26	26	25	1	0	1	0	1	0	
RHOA-Hs00357608_m1	20	20	20	20	20	20	20	20	20	20	20	20	1	0	1	0	1	0	
RPLP0-Hs99999902_m1	19	19	19	19	19	19	19	19	19	19	19	19	1	NaN	1	NaN	1	NaN	
SLC24A5-Hs01385407_g1	20	20	20	20	20	20	20	20	20	20	20	20	1	1	1	1	1	0	
SNAP23-Hs00187075_m1	23	23	23	23	23	23	23	22	23	23	23	23	1	0	1	0	1	0	
SNAP25-Hs00268296_m1	31	30	31	28	29	28	28	29	29	29	29	29	1	0	2	0	0	0	
SOX10-Hs00366918_m1	20	21	21	21	22	22	22	21	21	22	21	21	1	1	1	0	2	0	
SOX9-Hs00165814_m1	29	29	28	33	40	32	26	27	27	32	31	32	27	0	0	0	9	0	
STX4-Hs00190266_m1	25	25	25	25	25	25	25	25	25	25	25	25	1	1	1	0	1	1	
STX6-Hs00195163_m1	23	24	24	23	23	22	23	23	23	23	23	23	1	0	1	0	1	0	
SYTL2-Hs00262988_m1	24	25	25	25	26	25	24	24	24	25	25	25	2	0	1	1	2	0	
TNF-Hs00174128_m1	36	35	35	40	40	40	40	40	40	34	35	40	0	0	0	0	1	1	
TYR-Hs00165976_m1	19	19	19	18	18	18	18	19	19	18	18	18	1	0	1	0	1	0	
TYRP1-Hs00167051_m1	16	16	16	16	16	16	16	16	16	15	15	15	1	0	1	0	1	0	
USF1-Hs00273038_m1	24	23	24	23	24	23	23	23	24	24	23	24	1	0	1	1	1	1	
VAMP2-Hs00360269_m1	24	22	24	24	23	24	24	24	23	23	23	24	1	0	1	0	1	1	
WNT16-Hs00365138_m1	34	33	32	40	40	40	40	40	40	40	33	40	0	0	0	0	3	0	
XPC-Hs01104206_m1	23	24	24	24	24	24	23	24	24	23	23	23	1	0	0	0	1	0	