

**Development of a Focused Microarray to Assess Human Embryonic Stem Cell Differentiation**  
**Supplementary Table 3**

Genes over-expressed in hESC BG02 compared to hURNA <sup>a</sup>								
Category	Gene	UniGene No.	Ratio	SD <sup>b</sup>	Gene	UniGene No.	Ratio	SD <sup>b</sup>
ES	AURKB	Hs.442658	1.53	0.29	OK/SW-cl.56	Hs.356729	3.14	0.09
	CCNB1	Hs.23960	1.79	0.20	PHF17	Hs.12420	1.72	0.48
					PODXL	Hs.16426	2.53	0.41
	CD24	Hs.375108	3.88	0.08	POU5F1	Hs.249184	7.08	1.74
	DNMT3B	Hs.251673	3.17	0.26	PSIP2		1.60	0.19
	EIF4A1	Hs.129673	2.23	0.12	PSMA2	Hs.333786	1.99	0.46
	FABP5	Hs.408061	1.76	0.10	RPL24	Hs.184582	3.17	0.70
	GAL	Hs.278959	3.13	0.45	RPL4	Hs.186350	2.50	0.37
	GJA1	Hs.74471	3.57	0.24	RPL6	Hs.528668	3.68	0.96
	HDAC2	Hs.3352	1.67	0.32	RPL7	Hs.421257	4.16	0.73
	HMGA1	Hs.57301	8.23	1.08	RPLP0	Hs.443796	2.04	0.69
	HMGB2	Hs.434953	2.44	0.50	RPS24	Hs.356794	5.41	0.88
	HNRPAB	Hs.81361	2.12	0.40				
	HSPA4	Hs.90093	1.85	0.25	SET	Hs.436687	2.14	0.19
	IFITM1	Hs.458414	2.31	0.15	SFRP2	Hs.31386	1.77	0.08
	IMPDH2	Hs.75432	1.91	0.25	SLC16A1	Hs.75231	1.86	0.39
	KPNA2	Hs.252712	1.53	0.24	SNRPF	Hs.105465	1.89	0.44
	KRT18	Hs.406013	2.10	0.30	SSB	Hs.309316	1.50	0.60
	KRT8	Hs.356123	1.61	0.33	TD-60	Hs.380857	1.89	0.30
	LAPTM4B	Hs.296398	1.79	0.15				
	LDHB	Hs.234489	2.46	0.37	ZNF117	Hs.250693	2.67	0.52
	LEFTB	Hs.278239	2.25	0.35	ZNF257	Hs.283900	2.46	0.35
	LIN28	Hs.86154	3.67	0.50	ZNF43	Hs.419763	2.99	0.42
	NASP	Hs.446206	3.25	0.45	clone RP3-447F3		3.28	0.40
	NBR2	Hs.375149	1.60	0.28	clone RP11-438F9		4.25	0.68
	NME2	Hs.433416	2.57	0.40	clone RP3-334F4		2.71	0.56
	NPM1	Hs.411098	7.07	1.34	clone RP11-248N6		4.49	0.75
	EB	None						
	Others <sup>c</sup>	ENO1	Hs.433455	2.38	0.67	NPPB	Hs.219140	1.70
FGFR1		Hs.533922	1.54	0.37	TMSB10	Hs.446574	1.50	0.52
GA17		Hs.44893	1.97	0.56	ZNF117	Hs.250693	3.66	1.44
HSPCA		Hs.446579	1.51	0.36	Clone 391O22		2.85	0.84
HSPCB		Hs.74335	2.40	0.74	HERV-H protein mRNA		4.94	1.41
HSPD1		Hs.79037	4.24	1.36	Clone 167F1		1.93	0.47
K-ALPHA-1		Hs.446608	2.25	0.81	Clone 38C16		2.19	0.67
LDHA		Hs.2795	1.95	0.70	beta-galactoside-binding lectin		1.59	0.43
LIN28		Hs.86154	4.29	1.56	Clone RP1-269M15		2.52	1.00
LOC402057		Hs.512525	3.01	1.05	Clone RP11-371L19		2.64	0.82
LOC51685			2.08	0.70	Clone RP5-1028D15		3.11	1.06
MIF		Hs.407995	2.28	0.57	Clone RP11-352D3		3.31	0.95

<sup>a</sup> Total RNA derived from BG02 ES cell line was labeled with Cy5 and hURNA with Cy3, respectively, and arrays were hybridized. Data shown represent means of gene expression ratios in BG01 compared to huURNA from triplicate spots.

<sup>b</sup> SD, standard deviation of means.

<sup>c</sup> LIN28 and ZNF117, redundant to ES category in BG02.