Supplementary Table 1

* count expressed as reads per million (rpm)
** when no reads were identified in RNA-seq from one of the cell lines ‘‘0’’ was replaced by ‘‘1’’
reads count in “NGS-Trex G+T” and “NGS-Trex T” panels are absolute and when no reads were identified in RNA-seq from one of the cell lines the fold change is “nd”

Gene Name	Carraro et al.				NGS-Trex G+T					NGS-Trex T				
	C5.2 *	Hb4a *	Fold change **	Fc (qRT-PCR)	C5.2	Hb4a	Fold change	pValue	pValue adj	C5.2	Hb4a	Fold change	pValue	pValue adj
ALDH2	14	0	14	41	20	0	nd	1.89E-05	2.28E-04	18	0	nd	5.61E-05	5.39E-04
ALDOA	1919	458	4	1	492	83	4	2.13E-46	3.92E-44	406	72	4.1	5.47E-37	8.84E-35
ANGPTL4	246	7	35	7	73	4	13	2.60E-13	1.02E-11	66	3	15.9	1.07E-12	3.93E-11
ANXA6	13	0	13	2	21	0	nd	1.10E-05	1.40E-04	18	0	nd	5.61E-05	5.39E-04
ATP5G3	685	14	49	2	254	8	23	4.99E-49	9.79E-47	205	8	18.5	3.54E-38	6.08E-36
ATP5L	568	55	10	2	178	13	10	5.99E-28	5.99E-26	168	12	10.1	1.14E-26	1.12E-24
C12orf44	146	14	10	2	33	2	11.9	1.83E-06	2.78E-05	29	2	10.5	1.27E-05	1.48E-04
CAPG	720	96	8	1	161	16	7	2.21E-22	1.74E-20	143	14	7.4	3.54E-20	2.56E-18
CDC20	392	89	4	1	100	18	4	4.04E-10	1.13E-08	82	16	3.7	5.07E-08	9.87E-07
COL3A1	28	0	28	493	44	0	nd	4.07E-11	1.28E-09	42	0	nd	1.21E-10	3.51E-09
COPE	170	27	6	1	104	8	9	1.40E-16	7.18E-15	102	6	12.3	9.22E-18	5.41E-16
COX11	20	0	20	2	26	4	5	7.61E-04	5.78E-03	17	2	6.1	3.39E-03	1.80E-02
COX4I1	562	14	40	2	181	9	15	5.63E-32	6.73E-30	148	7	15.3	1.01E-26	9.92E-25
COX8A	1293	294	4	1	350	70	4	9.11E-29	9.64E-27	275	48	4.1	6.39E-26	5.84E-24
CSDA	199	14	14	2	55	2	20	3.03E-11	9.70E-10	38	2	13.7	1.56E-07	2.80E-06
DST	35	212	-6	1	12	49	-6	9.95E-10	2.70E-08	11	43	-5.4	1.74E-08	3.72E-07
EEF1A1	4781	96	50	-1	2232	133	12	0.00E+00	0.00E+00	1857	123	10.9	1.26E-287	1.43E-283
EEF1B2	263	48	5	1	181	83	2	2.85E-04	2.48E-03	154	79	1.4	7.29E-03	3.35E-02
EIF4EBP1	199	41	5	1	46	10	3	1.15E-04	1.10E-03	45	8	4.1	2.61E-05	2.76E-04
ERBB2IP	18	137	-8	1	4	31	-11	1.31E-08	2.91E-07	4	31	-10.7	1.31E-08	2.86E-07
FAU	158	14	11	1	66	3	16	1.07E-12	3.98E-11	55	3	13.2	2.52E-10	7.13E-09
FBXL6	26	0	26	2	37	0	nd	1.83E-09	4.79E-08	29	0	nd	1.42E-07	2.55E-06
GALNT3	6	267	-45	-2	2	53	-37	5.14E-18	2.95E-16	2	45	-31.1	3.93E-15	1.85E-13
HMGA1	281	27	10	2	69	6	8	6.29E-11	1.92E-09	64	6	7.7	6.27E-10	1.67E-08
HMGB1	556	82	7	2	203	25	6	7.35E-25	6.32E-23	195	24	5.9	6.00E-24	4.82E-22
HMGB2	20	0	20	1	35	1	25	8.51E-08	1.65E-06	35	0	nd	5.43E-09	1.26E-07
HMGN2	374	7	53	1	158	18	6	1.54E-20	1.13E-18	139	13	7.7	4.63E-20	3.26E-18
HRAS	257	41	6	2	57	8	5	2.05E-07	3.78E-06	55	8	5.0	4.71E-07	7.66E-06
HSPA8	544	75	7	4	181	30	4	2.56E-18	1.52E-16	168	26	4.7	5.37E-18	3.19E-16
HSPE1	445	7	64	2	167	1	100	2.56E-38	3.88E-36	122	1	88.1	8.01E-28	8.40E-26
IL6ST	6	226	-38	1	884	48	13	7.96E-147	7.31E-144	1	37	-51.2	2.45E-13	9.58E-12
JUP	23	68	-3	1	7	13	-3	3.20E-02	1.16E-01	7	13	-2.6	3.20E-02	1.05E-01
KRT15	1129	164	7	3	274	34	6	7.13E-33	9.05E-31	238	32	5.4	2.26E-27	2.28E-25
KRT19	9515	2345	4	2	2165	455	3	1.58E-160	2.33E-157	2064	427	3.5	1.00E-155	1.89E-152
KRT4	14	0	14	52	23	2	8	2.19E-04	1.95E-03	22	2	7.9	3.49E-04	2.64E-03
KRT6A	492	96	5	3	849	172	4	1.74E-66	4.66E-64	750	162	3.3	4.57E-55	1.23E-52
KRT7	11141	2297	5	2	2845	465	4	1.86E-267	6.84E-264	2650	431	4.4	3.33E-250	1.88E-246
LAMB1	105	540	-5	1	37	127	-5	2.17E-20	1.57E-18	29	111	-5.3	1.94E-19	1.30E-17
LAMC1	222	971	-4	2	62	186	-4	4.12E-26	3.67E-24	56	174	-4.3	2.84E-25	2.51E-23
LAMC2	146	608	-4	1	40	127	-4	3.34E-19	2.21E-17	34	115	-4.7	2.09E-18	1.29E-16
LMNA	339	48	7	2	115	10	8	2.35E-17	1.30E-15	98	9	7.9	1.18E-14	5.30E-13
LOX	12	171	-14	-8	2	36	-25	6.41E-12	2.20E-10	2	32	-22.1	1.66E-10	4.78E-09
LRPAP1	35	0	35	1	60	3	14	2.12E-11	6.87E-10	56	1	40.5	1.46E-12	5.26E-11
MME	0	27	-27	-11	0	40	nd	8.05E-16	3.96E-14	0	38	nd	4.58E-15	2.13E-13
NDUFA1	427	14	31	1	141	5	20	3.52E-27	3.34E-25	124	3	29.9	1.32E-25	1.18E-23
NDUFA13	948	157	6	1	264	26	7	6.48E-36	8.99E-34	239	25	6.9	1.06E-31	1.36E-29
NDUFA2	275	21	13	1	70	4	13	1.13E-12	4.21E-11	64	4	11.6	2.11E-11	6.74E-10
NDUFA5	13	0	13	1	21	1	15	1.08E-04	1.04E-03	18	0	nd	5.61E-05	5.39E-04
NDUFB3	23	0	23	2	88	2	32	1.20E-18	7.44E-17	37	1	26.7	3.02E-08	6.14E-07
NDUFB8	1001	123	8	2	246	23	8	2.13E-34	2.90E-32	228	21	7.8	3.30E-32	4.29E-30
NDUFS7	334	14	24	1	72	2	26	4.89E-15	2.25E-13	65	2	23.5	1.81E-13	7.17E-12
NDUFS8	211	41	5	1	89	13	5	1.39E-10	4.06E-09	70	11	4.6	3.19E-08	6.46E-07
PDS5B	0	26	-26	1	1	34	-47	3.07E-12	1.09E-10	0	29	nd	1.14E-11	3.80E-10
PFKP	749	123	6	4	190	30	5	7.26E-20	4.97E-18	167	24	5.0	7.84E-19	5.10E-17
PHB	492	75	7	3	133	16	6	5.21E-17	2.79E-15	123	15	5.9	1.02E-15	5.02E-14
PHB2	4166	827	5	3	989	156	5	1.08E-96	4.80E-94	895	146	4.4	2.43E-85	1.20E-82
PTMA	46	0	46	1	99	2	36	3.80E-21	2.82E-19	92	2	33.2	1.48E-19	1.00E-17
PTMS	427	14	31	1	145	6	17	4.88E-27	4.57E-25	122	4	22.0	4.98E-24	4.03E-22
RAN	351	21	17	2	103	7	11	3.78E-17	2.06E-15	94	7	9.7	2.76E-15	1.31E-13
RPL10A	2949	595	5	1	910	116	6	1.27E-103	6.01E-101	849	112	5.5	1.15E-94	5.90E-92
RPL29	1229	533	2	2	906	496	1	2.83E-07	5.07E-06	816	446	1.3	9.23E-07	1.41E-05
RPL31	152	14	11	2	76	8	7	5.47E-11	1.69E-09	49	5	7.1	1.27E-07	2.30E-06
RPL38	1006	96	10	1	442	32	10	1.97E-67	5.56E-65	384	20	13.9	2.03E-65	7.65E-63
RPL39	1375	321	4	2	333	98	2	4.02E-17	2.17E-15	269	67	2.9	1.01E-17	5.85E-16
RPL41	1042	21	50	2	768	72	8	6.57E-104	3.22E-101	667	50	9.6	1.30E-99	7.34E-97
RPL8	1691	48	35	3	488	9	39	9.86E-101	4.53E-98	463	5	66.9	9.86E-101	6.20E-98
RPLP1	2475	41	60	2	912	31	21	6.97E-170	1.14E-166	859	22	28.2	2.06E-168	4.66E-165
RPS13	860	103	8	1	319	78	3	3.40E-21	2.54E-19	296	59	3.6	1.17E-24	9.77E-23
RPS15A	714	68	11	1	435	34	9	1.88E-64	4.70E-62	377	27	10.1	5.62E-58	1.67E-55
RPS19	6267	1306	5	1	1630	282	4	1.50E-146	1.30E-143	1462	220	4.8	2.05E-147	2.57E-144
RPS24	363	62	6	2	135	18	5	3.01E-16	1.51E-14	119	12	7.2	8.57E-17	4.54E-15
RPS27A	35	0	35	1	337	7	35	6.16E-69	1.78E-66	320	7	33.0	4.49E-65	1.59E-62
RPS6	170	7	24	1	64	1	46	2.14E-14	9.40E-13	60	1	43.3	1.77E-13	7.04E-12
SEMA3C	25	0	25	1	1	34	-47	3.07E-12	1.09E-10	0	27	nd	6.48E-11	1.95E-09
SFN	374	7	53	1	93	2	34	8.80E-20	5.96E-18	79	1	57.1	7.52E-18	4.43E-16
SLC3A2	257	21	12	3	83	10	6	4.06E-11	1.28E-09	71	8	6.4	5.02E-10	1.37E-08
SOS2	6	301	-50	1	9	72	-11	1.45E-18	8.80E-17	6	61	-14.1	3.93E-17	2.15E-15
SOX15	15	0	15	1	26	0	nd	7.24E-07	1.21E-05	25	0	nd	1.25E-06	1.82E-05
STAT3	64	390	-6	1	18	82	-6	2.32E-16	1.18E-14	16	72	-6.2	1.93E-14	8.45E-13
TGFBR3	6	246	-41	1	7	42	-8	3.06E-10	8.66E-09	4	35	-12.1	6.29E-10	1.67E-08
TIMP1	357	7	51	2	87	3	21	2.58E-17	1.42E-15	81	2	29.3	4.60E-17	2.49E-15
TPI1	930	34	27	2	444	57	6	3.45E-51	7.04E-49	424	56	5.5	4.43E-48	1.12E-45
TUBB2C	568	41	14	2	162	12	10	1.97E-25	1.74E-23	140	10	10.1	1.88E-22	1.46E-20
TXNIP	275	2639	-10	-3	75	539	-10	3.20E-124	2.14E-121	68	462	-9.4	3.03E-104	2.45E-101
TXNRD2	146	14	10	2	39	4	7	2.72E-06	3.97E-05	29	1	21.0	1.87E-06	2.63E-05
UCRC	30	0	30	2	57	0	nd	3.46E-14	1.50E-12	54	0	nd	1.77E-13	7.04E-12
UQCRB	556	34	16	2	207	7	21	1.13E-39	1.83E-37	196	3	47.2	4.95E-42	1.02E-39
VEGFA	23	185	-8	1	9	35	-5	4.00E-07	6.95E-06	8	33	-5.7	5.21E-07	8.41E-06