

Supplementary Table SX Differentially expressed genes for ips-KS2 versus ips-HM1 and ips-HM2 hiPSCs. (See also Fig. 5)

Gene id	Gene	Locus	ips-KS2 vs ips-HM1			ips-KS2 vs ips-HM2				
			Avg-value- ips-KS2	Avg-value- ips-HM1	log2 (fold_change)	p_value	Avg-value- ips-KS2	Avg-value- ips-HM2	log2 (fold_change)	p_value
ENSG0000060718	COL11A1	1:103342022-103574052	8.92426	40.5486	2.18385	5.00E-05	9.63176	40.4575	2.07054	0.00015
ENSG00000116774	OLFM13	1:114522062-114524876	45.1998	71.3573	0.658746	0.00025	48.6791	82.3332	0.758173	0.00165
ENSG00000120937	NPPB	1:11917520-11918988	1.06852	20.3333	4.25016	5.00E-05	1.15037	33.3586	4.85789	5.00E-05
ENSG00000143369	ECM1	1:150480537-150486265	0.630046	3.11202	2.30432	5.00E-05	0.677995	4.21341	2.63564	5.00E-05
ENSG00000197747	S100A10	1:151955390-151966866	97.7438	259.227	1.40714	5.00E-05	105.345	201.073	0.932588	0.00035
ENSG00000197956	S100A6	1:153506078-153508720	18.1794	53.2273	1.54986	5.00E-05	19.5528	54.2509	1.47227	5.00E-05
ENSG00000169418	NPR1	1:153651112-153666468	4.02583	2.40595	-0.742679	0.00205	4.3302	2.18806	-0.984786	0.0047
ENSG00000158710	TAGLN2	1:159887896-159895522	48.8973	137.298	1.48949	5.00E-05	52.6316	107.271	1.02726	0.00015
ENSG00000018625	ATPIA2	1:160085548-160113381	17.0681	4.30029	-1.9888	5.00E-05	18.3786	10.7186	-0.777918	0.00685
ENSG00000158874	APOA2	1:161185023-161193421	0.100845	6.22822	5.94861	5.00E-05	0.108602	11.4842	6.72446	5.00E-05
ENSG00000198821	CD247	1:167399876-167487847	1.24022	0.485795	-1.35218	0.0037	1.33515	0.488384	-1.45092	0.00935
ENSG00000117148	ACTL8	1:18081807-18153558	1.07139	0.384188	-1.4796	0.00045	1.15333	0.415317	-1.47352	0.0068
ENSG00000058085	LAMC2	1:183155372-183214035	6.02489	16.473	1.4511	5.00E-05	6.49012	12.1264	0.901837	0.00095
ENSG00000116852	KIF21B	1:200938519-200992828	6.01131	3.57463	-0.749884	0.0001	6.46736	3.80565	-0.765033	0.00255
ENSG00000159176	CSRPI	1:201452657-201502736	23.5769	66.4044	1.4939	5.00E-05	25.3853	56.4219	1.15226	0.00035
ENSG00000159388	BTG2	1:203274618-203278730	1.48268	6.76861	2.19066	5.00E-05	1.59753	6.30856	1.98147	5.00E-05
ENSG00000122176	FMOD	1:203309755-203320617	0.38106	2.94385	2.94961	5.00E-05	0.410518	2.7989	2.76934	5.00E-05
ENSG00000054392	HHA1	1:210501595-210849638	0.402556	1.04673	1.37863	0.00035	0.433861	1.33142	1.61766	0.00315
ENSG00000198468	FLVCR1-AS1	1:213025449-213031430	16.2743	9.51074	-0.774964	0.00195	17.5214	7.81227	-1.16531	0.001

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Gene id	Gene	Locus	ips-KS2 vs ips-HMI			ips-KS2 vs ips-HM2				
			Avg-value-ips-KS2	Avg-value-ips-HMI	log2 (fold_change)	p_value	Avg-value-ips-KS2	Avg-value-ips-HM2	log2 (fold_change)	p_value
ENSG00000092969	TGFB2	1:218519576-218617961	1.06744	2.83351	1.40843	0.00455	1.15037	8.91642	2.95437	5.00E-05
ENSG00000185155	MIXL1	1:226411318-226414755	0.93336	2.07354	1.15159	0.0046	1.0051	3.28279	1.70758	0.0024
ENSG00000143632	ACTA1	1:229566991-229569845	0.698284	26.5172	5.24697	5.00E-05	0.750682	12.9618	4.10992	5.00E-05
ENSG00000182118	FAM89A	1:231154703-231175992	1.05942	3.48549	1.71809	5.00E-05	1.14064	4.08612	1.84088	0.00015
ENSG00000116991	SIPA1L2	1:232533710-232697304	3.19499	10.1715	1.67065	5.00E-05	3.44106	6.98697	1.02181	0.00075
ENSG00000168243	GNG4	1:235710986-235814054	39.4184	19.5531	-1.01147	5.00E-05	42.4863	22.0116	-0.948735	0.0013
ENSG00000084628	NKAIN1	1:31652591-31712401	27.1967	15.5674	-0.804907	0.0001	29.2794	16.7354	-0.806984	0.00095
ENSG00000117394	SLC2A1	1:43391051-43424530	89.3404	226.854	1.34438	5.00E-05	96.1866	181.939	0.919552	5.00E-05
ENSG00000222009	BTBD19	1:45274153-45281257	0.404668	1.21176	1.58229	0.00035	0.435095	1.53707	1.82078	0.00055
ENSG00000169174	PCSK9	1:55505220-55530525	4.57223	47.8292	3.38692	5.00E-05	4.91775	17.2022	1.80653	5.00E-05
ENSG00000177606	JUN	1:59246464-59249785	1.48359	5.25177	1.82371	5.00E-05	1.59607	3.61748	1.18046	0.0018
ENSG00000158966	CACHD1	1:64936427-65158741	31.1901	17.6328	-0.822827	5.00E-05	33.6156	21.9401	-0.615558	0.0077
ENSG00000116717	GADD45A	1:68150743-68154021	3.98144	10.797	1.43927	5.00E-05	4.2839	9.01421	1.07328	0.0039
ENSG00000237491	RPI1-206L10.9	1:714149-755214	0.548254	1.25787	1.19807	0.0038	0.591205	1.76753	1.58	0.00145
ENSG00000162618	ELTD1	1:79355448-79472403	0.776149	2.27485	1.55136	5.00E-05	0.837944	4.36559	2.38125	5.00E-05
ENSG00000137962	ARHGAP29	1:94614543-94740624	1.17221	3.18132	1.44039	5.00E-05	1.26526	2.88027	1.18677	0.0006
ENSG00000117525	F3	1:94994780-95007356	3.77776	18.576	2.29784	5.00E-05	4.07274	8.87339	1.12348	0.00145
ENSG00000138131	LOXL4	10:100007446-100028007	0.161513	1.15862	2.84269	5.00E-05	0.173815	1.74094	3.32424	5.00E-05
ENSG00000107819	SFXN3	10:102790990-102800998	1.21108	2.63134	1.1195	0.00225	1.3043	4.02379	1.62528	0.00055

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Gene id	Gene	Locus	ips-KS2 vs iPS-HMI			ips-KS2 vs ips-HM2				
			Avg-value- ips-KS2	Avg-value- iPS-HMI	log2 (fold_change)	p_value	Avg-value- ips-KS2	Avg-value- ips-HM2	log2 (fold_change)	p_value
ENSG00000225383	SFTA1P	10:10826399-10836943	1.10873	11.7887	3.41043	5.00E-05	1.19484	12.9267	3.43547	5.00E-05
ENSG00000026025	VIM	10:17256237-17279592	92.5775	480.914	2.37704	5.00E-05	99.6618	572.149	2.52128	5.00E-05
ENSG00000078114	NIEBL	10:21068901-21463977	3.89835	8.28584	1.08779	5.00E-05	4.20237	9.71374	1.20882	0.00015
ENSG00000273038	RPI1-479G22.8	10:33176188-33178239	0.411725	1.98938	2.27257	5.00E-05	0.443701	1.77917	2.00355	0.0004
ENSG00000099250	NRPI	10:33466419-33625190	1.67292	5.05507	1.59536	5.00E-05	1.80228	3.91782	1.12023	0.00645
ENSG00000067082	KLF6	10:3818187-3827473	6.2736	10.3133	0.717145	0.00275	6.76228	13.6662	1.01503	0.00025
ENSG00000204175	GPRIN2	10:46994086-47005643	6.53936	1.94106	-1.75231	5.00E-05	7.03543	3.27162	-1.10463	0.0071
ENSG00000107984	DKK1	10:54074055-54077802	1.30969	4.86422	1.89298	0.0005	1.41284	6.08177	2.10589	0.0017
ENSG00000223784	RPI1-554I8.2	10:6779343-6780988	0.987883	6.40537	2.69687	5.00E-05	1.06359	4.11608	1.95233	0.0011
ENSG00000165730	STOX1	10:70587297-70655188	3.04578	0.689162	-2.1439	5.00E-05	3.28344	1.44359	-1.18554	0.00135
ENSG00000122861	PLAU	10:75668934-75682535	10.1869	26.1417	1.35963	5.00E-05	10.9708	40.0426	1.86786	5.00E-05
ENSG00000148600	CDHRI	10:85954409-85979377	1.26709	2.23877	0.821187	0.00245	1.36477	2.6815	0.974389	0.00765
ENSG00000107796	ACTA2	10:90639490-90775542	3.88263	16.9068	2.12249	5.00E-05	4.18104	36.8069	3.13804	5.00E-05
ENSG00000138135	CH25H	10:90965693-90967071	0.421172	2.63843	2.6472	5.00E-05	0.453666	2.09244	2.20548	0.00035
ENSG00000148677	ANKRD1	10:92671852-92681033	3.5478	24.7336	2.80148	5.00E-05	3.82233	36.1	3.23948	5.00E-05
ENSG00000095596	CYP26A1	10:94833231-94837647	1.60393	16.3282	3.34769	5.00E-05	1.72716	11.8781	2.78183	5.00E-05
ENSG00000138119	MYOF	10:95066185-95242074	1.02731	5.71053	2.47475	5.00E-05	1.10681	7.4921	2.75896	5.00E-05
ENSG00000137672	TRPC6	11:101322294-101743293	0.369102	2.38875	2.69416	5.00E-05	0.39787	1.10861	1.47838	0.0051
ENSG00000152578	GRIA4	11:105480720-105852819	8.16929	3.5298	-1.21063	0.0001	8.80344	3.45018	-1.3514	0.0001

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs ips-HMI			ips-KS2 vs ips-HM2			
			Avg-value-ips-KS2	Avg-value-ips-HMI	log2 (fold_change)	p_value	Avg-value-ips-KS2	Avg-value-ips-HM2	log2 (fold_change)
ENSG00000166741	NINMT	11:113930314-114227293	0.147211	4.28647	4.86383	5.00E-05	4.37782	4.78679	5.00E-05
ENSG00000182985	CADMI	11:115039937-115375675	8.74082	24.1417	1.46569	5.00E-05	20.3444	1.11031	5.00E-05
ENSG00000149591	TAGLN	11:117070036-117103241	127.919	606.155	2.24445	5.00E-05	137.672	1.90778	0.0001
ENSG00000076706	MCAM	11:119179240-119192231	9.95565	30.806	1.62962	5.00E-05	10.716	0.728875	0.00655
ENSG00000133816	MICAL2	11:12115542-12285334	1.96154	3.80378	0.955449	0.00155	2.11298	1.19404	0.00055
ENSG00000149564	ESAM	11:124617367-124635832	0.240631	1.54313	2.68097	5.00E-05	0.259319	1.65724	0.00015
ENSG00000134917	ADAMTS8	11:130274819-130298888	4.55681	2.54454	-0.840618	0.0015	4.90594	2.51957	0.00495
ENSG00000130600	H19	11:2016405-2022700	6.06817	34.2512	2.49682	5.00E-05	6.53077	1.97067	0.0007
ENSG00000167244	IGF2	11:2150341-2182571	0.333179	3.74399	3.49021	5.00E-05	0.358603	2.60111	5.00E-05
ENSG00000026508	CD44	11:35160416-35253949	4.67741	17.4596	1.90024	5.00E-05	5.03834	1.17045	0.0007
ENSG00000132274	TRIM22	11:5684424-5959849	11.9283	43.5681	1.86888	5.00E-05	12.8587	0.99774	0.00545
ENSG00000134817	APLN	11:57001050-57004709	0.306738	2.88365	3.23282	5.00E-05	0.33028	3.91747	5.00E-05
ENSG00000124942	AHNAK	11:62201015-62323707	0.732565	4.84534	2.72557	5.00E-05	0.789279	2.66231	5.00E-05
ENSG00000168004	HRASL5	11:63228875-63258666	2.06014	6.52616	1.66349	5.00E-05	2.22122	1.18475	0.00215
ENSG00000166311	SMPD1	11:6411654-6416228	1.21468	2.54467	1.0669	0.0007	1.30769	1.39041	0.00115
ENSG00000175592	FOSL1	11:65659519-65668044	1.46262	7.08403	2.27601	5.00E-05	1.57378	1.32585	0.00355
ENSG00000174080	CTSF	11:66330933-66336312	5.87063	10.1864	0.79506	0.0009	6.31896	0.812654	0.00795
ENSG00000137501	SYTL2	11:85405266-85522184	3.63619	8.51653	1.22784	0.0001	3.92177	1.26205	0.0014
ENSG00000150687	PRSS23	11:86502100-86664433	8.78236	39.9066	2.18395	5.00E-05	9.45549	2.71843	5.00E-05

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs ips-HM1			ips-KS2 vs ips-HM2				
			Avg-value- ips-KS2	Avg-value- ips-HM1	log2 (fold_change)	p_value	Avg-value- ips-KS2	Avg-value- ips-HM2	log2 (fold_change)	p_value
ENSG00000086991	NOX4	11:89057523-89322779	1.68029	3.26191	0.957009	0.00235	1.81146	5.09588	1.49218	0.00135
ENSG00000151572	ANO4	12:10111303-101522419	2.19531	3.82644	0.801577	0.0053	2.36645	5.99987	1.34221	0.0019
ENSG00000136048	DRAM1	12:102271128-102405908	2.32591	8.94133	1.94269	5.00E-05	2.50687	5.10743	1.02671	0.00295
ENSG00000135127	CCDC64	12:120427672-120532298	13.6983	7.61609	-0.846874	0.0007	14.736	7.4707	-0.980028	0.00155
ENSG00000151952	TMEM132D	12:129556269-130388211	2.51582	1.17634	-1.09672	5.00E-05	2.70893	0	-inf	5.00E-05
ENSG00000134531	EMPI	12:13349649-13369708	0.77725	3.41658	2.1361	5.00E-05	0.838178	1.98764	1.24573	0.0092
ENSG00000111348	ARHGDI3	12:15094950-15114662	0.820047	4.37259	2.41471	5.00E-05	0.8835	2.60509	1.56003	0.00515
ENSG00000110900	TSPAN11	12:31079361-31149534	0.592444	1.43579	1.27709	0.0019	0.637785	1.53088	1.26321	0.00795
ENSG00000139174	PRICKLE1	12:42632248-42984157	27.8327	10.6709	-1.3831	0.0003	29.9862	10.0545	-1.57646	0.00375
ENSG00000198001	IRAK4	12:44152746-44183346	1.77929	3.73697	1.07057	0.00055	1.91921	3.81064	0.98952	0.0067
ENSG00000139209	SLC38A4	12:47158545-47226191	15.7233	7.36918	-1.09333	0.0001	16.9635	9.45488	-0.843304	0.00375
ENSG00000139211	AMIGO2	12:47469489-47630443	2.32615	5.82502	1.32432	5.00E-05	2.50775	7.73158	1.62437	0.00015
ENSG00000166863	TAC3	12:57403783-57444982	17.7249	5.07483	-1.80434	5.00E-05	19.0838	10.1054	-0.917227	0.0091
ENSG00000174099	MSRB3	12:65672422-66036152	0.419109	1.8637	2.15277	5.00E-05	0.451902	2.34508	2.37555	5.00E-05
ENSG00000135678	CPM1	12:69201955-69365350	0.205889	1.1378	2.46631	0.0032	0.222023	2.14722	3.27369	0.00465
ENSG00000139292	LGR5	12:71518864-71980090	0.224052	1.20187	2.42337	5.00E-05	0.241803	1.71118	2.82308	5.00E-05
ENSG00000173262	SLC2A14	12:7965107-8043744	4.36168	13.3065	1.60918	5.00E-05	4.70032	8.50407	0.855396	0.00345
ENSG00000257474	RPI1-359M6.1	12:79933982-79944315	2.59435	151.973	5.8723	5.00E-05	2.79467	7.86481	1.49273	0.0034
ENSG00000059804	SLC2A3	12:8071825-8088871	104.927	303.096	1.53038	5.00E-05	113.088	263.946	1.22279	5.00E-05

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs ips-HMI			ips-KS2 vs ips-HM2				
			Avg-value-ips-KS2	Avg-value-ips-HMI	log2 (fold_change)	p_value	Avg-value-ips-KS2	Avg-value-ips-HM2	log2 (fold_change)	p_value
ENSG00000197614	MFPAP5	12:8786962-8815484	1.15938	5.46878	2.23786	5.00E-05	1.24973	9.99877	3.00014	5.00E-05
ENSG00000111788	RPI1-22B23.1	12:9429830-9466684	5.83171	3.08068	-0.920668	0.00015	6.27482	3.37706	-0.893805	0.0045
ENSG00000214826	DDX12P	12:9570308-9600825	7.26536	4.82477	-0.590573	0.00495	7.81746	4.25459	-0.877681	0.0031
ENSG00000074527	NTN4	12:96043030-96184930	0.358303	3.05041	3.08975	5.00E-05	0.386034	2.26763	2.55439	0.001
ENSG00000127863	TNFRSF19	13:24144508-24250232	0.822199	2.64166	1.68388	5.00E-05	0.886341	3.88723	2.13281	5.00E-05
ENSG00000151846	PABPC3	13:25670299-25673389	0.450051	1.00587	1.16028	0.0011	0.4855	1.32203	1.44521	0.00185
ENSG00000120669	SOHLH2	13:36742344-36871979	5.45222	0.570681	-3.25609	0.00115	5.87805	0.935653	-2.65129	0.0041
ENSG00000136167	LCPI	13:46700054-46786006	2.043	8.12548	1.99176	5.00E-05	2.20331	5.44126	1.30427	0.0003
ENSG00000226792	LINC00371	13:51656983-51746524	13.1398	4.60878	-1.51148	5.00E-05	14.1522	7.98507	-0.825651	0.00595
ENSG00000150510	FAM124A	13:51796502-51858377	22.7719	9.42807	-1.27222	5.00E-05	24.5261	13.577	-0.853153	0.00015
ENSG00000136110	LECT1	13:53277398-53313947	121.705	76.9539	-0.661319	0.00035	131.108	85.0916	-0.623668	0.0063
ENSG00000102554	KLF5	13:73629113-73651676	1.04788	3.64178	1.79717	5.00E-05	1.12891	2.63073	1.22054	0.0055
ENSG00000066735	KIF26A	14:104605059-104647231	5.09512	3.11393	-0.710378	0.00105	5.47706	2.51103	-1.12512	0.0003
ENSG00000258986	TMEM179	14:104941014-105071984	2.66738	0.540024	-2.30432	5.00E-05	2.86931	0.6707	-2.09697	0.0015
ENSG00000185567	AHNAK2	14:105403580-105444694	0.534254	1.23019	1.20329	0.0038	0.575459	2.02218	1.81313	0.0006
ENSG00000185347	C14orf80	14:105952653-105965912	2.11384	0.946464	-1.15925	0.0095	2.27299	0.819432	-1.4719	0.00615
ENSG00000225210	AL589743.1	14:19650017-19718563	1.62605	0	-inf	5.00E-05	1.75293	0	-inf	5.00E-05
ENSG00000129538	RNASEI	14:21269386-21271437	0.379757	1.02367	1.43061	0.002	0.408859	2.29672	2.4899	5.00E-05
ENSG00000139926	FRMD6	14:51921229-52197445	5.26837	10.9668	1.05772	5.00E-05	5.67992	11.0284	0.95728	0.00055

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs ips-HMI			ips-KS2 vs ips-HM2				
			Avg-value- ips-KS2	Avg-value- ips-HMI	log2 (fold_change)	p_value	Avg-value- ips-KS2	Avg-value- ips-HM2	log2 (fold_change)	p_value
ENSG00000202577	SAMD4A	14:55033814- 55260033	1.63947	7.93289	2.27461	5.00E-05	1.76637	4.61219	1.38467	5.00E-05
ENSG00000165617	DACT1	14:59100684- 59115039	2.23466	19.099	3.09537	5.00E-05	2.40674	10.3533	2.10495	5.00E-05
ENSG00000119681	LTBP2	14:74964872- 75079306	0.243083	1.66161	2.77306	5.00E-05	0.261705	3.14304	3.58615	5.00E-05
ENSG00000185070	FLRT2	14:85996487- 86095034	1.74134	4.6493	1.41682	0.0076	1.87763	6.29691	1.74573	0.0025
ENSG00000100604	CHGA	14:93389424- 93401638	12.7273	3.65918	-1.79834	5.00E-05	13.693	7.98508	-0.778064	0.0083
ENSG00000184254	ALDH1A3	15:101389765- 101626271	1.74181	10.8705	2.64176	5.00E-05	1.8767	7.91727	2.07681	5.00E-05
ENSG00000166923	GREM1	15:33009470- 33026870	2.88125	11.4599	1.99183	5.00E-05	3.10618	34.5146	3.47399	5.00E-05
ENSG00000159251	ACTC1	15:35047284- 35105124	17.0938	181.601	3.40923	5.00E-05	18.4211	131.306	2.8335	5.00E-05
ENSG00000134138	MEIS2	15:37181405- 37393504	0.389764	1.33555	1.77676	5.00E-05	0.420651	2.16204	2.3617	5.00E-05
ENSG00000137801	THBS1	15:39873279- 39891667	7.24708	25.2028	1.79811	5.00E-05	7.80844	14.6504	0.907831	0.0009
ENSG00000171766	GATM	15:45653321- 45694525	5.42013	12.9936	1.2614	5.00E-05	5.84218	16.9444	1.53623	5.00E-05
ENSG00000166147	FBN1	15:48700502- 48938046	2.37888	7.51923	1.6603	5.00E-05	2.5637	7.85299	1.61501	5.00E-05
ENSG00000255302	EID1	15:49115931- 49255641	121.963	72.5008	-0.750379	0.00015	131.614	84.6898	-0.636053	0.00985
ENSG00000104112	SCG3	15:51973549- 52013223	39.8971	22.3001	-0.839235	5.00E-05	43.0586	20.1778	-1.09353	5.00E-05
ENSG00000166450	PRTG	15:55903743- 56035288	2.81066	5.96527	1.08568	5.00E-05	3.03351	6.58593	1.1184	0.00025
ENSG00000182718	ANXA2	15:60639332- 60695082	128.444	379.195	1.5618	5.00E-05	138.391	319.269	1.20602	5.00E-05
ENSG00000140416	TPM1	15:63334830- 63364114	259.135	579.097	1.1601	5.00E-05	279.175	475.121	0.767124	0.00155
ENSG00000166938	DIS3L	15:66570835- 66626236	19.3687	7.68704	-1.33323	5.00E-05	20.8744	8.3202	-1.32704	5.00E-05
ENSG00000137809	ITGA11	15:68594049- 68724501	0.300471	2.55484	3.08793	5.00E-05	0.323315	5.29746	4.03429	5.00E-05

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs ips-HMI			ips-KS2 vs ips-HM2				
			Avg-value-ips-KS2	Avg-value-ips-HMI	log2 (fold_change)	p_value	Avg-value-ips-KS2	Avg-value-ips-HM2	log2 (fold_change)	p_value
ENSG00000166825	ANPEP	15:90328119-90358633	1.13476	2.23621	0.978664	0.00465	1.221	2.72714	1.15933	0.0023
ENSG00000188897	CTD-3088G3.8	16:11453701-11617444	1.58501	0.198465	-2.99754	5.00E-05	1.70505	0.747092	-1.19046	0.00915
ENSG00000183793	NPIPA5	16:15457515-15474904	14.542	2.92148	-2.31545	5.00E-05	15.6727	5.1557	-1.60402	5.00E-05
ENSG00000261740	RPI1-345J4.5	16:29262828-29519817	15.1424	8.04587	-0.912277	0.00615	16.3182	6.39898	-1.35057	0.00325
ENSG00000008517	IL32	16:3115297-3137101	1.19287	6.13452	2.36252	5.00E-05	1.28524	7.17855	2.48166	5.00E-05
ENSG00000087245	MMP2	16:55423611-55540603	28.0658	61.7633	1.13794	5.00E-05	30.2121	66.2704	1.13324	0.00225
ENSG00000198848	CESI	16:55836762-55867249	0.289253	2.73912	3.24331	5.00E-05	0.311517	6.36859	4.35359	5.00E-05
ENSG00000169715	MT1E	16:56659386-56661024	9.57423	51.3598	2.42341	5.00E-05	10.2944	43.2831	2.07195	5.00E-05
ENSG00000150394	CDH8	16:61681145-62070939	2.70054	5.21104	0.948322	0.00755	2.90978	6.2526	1.10355	0.00455
ENSG00000140937	CDH11	16:64977655-65160015	2.74874	8.75711	1.67168	5.00E-05	2.96027	8.49875	1.52152	5.00E-05
ENSG00000260834	RPI1-256I9.2	16:65224875-65610203	36.8779	107.291	1.54071	5.00E-05	39.7271	96.6405	1.28251	5.00E-05
ENSG00000159593	NAEI	16:66836777-66907159	124.664	80.1153	-0.637894	0.0002	134.461	85.5506	-0.652337	0.0031
ENSG00000039523	FAM165A	16:67552320-67580691	0.921935	4.26204	2.20881	5.00E-05	0.991854	3.23439	1.7053	5.00E-05
ENSG00000140945	CDH13	16:82660407-83841439	1.11362	14.8425	3.73641	5.00E-05	1.19958	8.55862	2.83485	5.00E-05
ENSG00000015413	DPEP1	16:89679715-89704839	2.28501	0.823903	-1.47166	0.0008	2.45832	0.983146	-1.32219	0.00335
ENSG00000109099	PMP22	17:15133094-15169024	0.899715	9.7167	3.43293	5.00E-05	0.969837	4.59761	2.24507	5.00E-05
ENSG00000132386	SERPINF1	17:1665252-1680868	29.5205	11.8192	-1.32058	5.00E-05	31.7911	17.464	-0.864239	0.0055
ENSG00000263563	UBBP4	17:21729600-21731762	1.46557	0.425358	-1.78471	0.0004	1.5781	0.358002	-2.14015	0.00015
ENSG00000132130	LHX1	17:35294083-35301917	0.118961	1.34598	3.5001	5.00E-05	0.127975	2.2957	4.16499	5.00E-05

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs ips-HMI			ips-KS2 vs ips-HM2				
			Avg-value- ips-KS2	Avg-value- ips-HMI	log2 (fold_change)	p_value	Avg-value- ips-KS2	Avg-value- ips-HM2	log2 (fold_change)	p_value
ENSG00000263874	LINC00672	17:37081420-37084310	2.41814	0.35672	-2.76103	5.00E-05	2.60631	1.08965	-1.25815	0.00445
ENSG00000238083	LRRC37A2	17:44588876-44657088	1.62899	0.777928	-1.06627	0.00725	1.75568	0.604168	-1.53901	0.00405
ENSG0000005884	ITGA3	17:48133331-48167845	7.65982	16.4679	1.10428	0.0001	8.24425	14.5022	0.814808	0.00985
ENSG00000108821	COL1A1	17:48260649-48278993	27.0825	70.8443	1.38729	5.00E-05	29.157	81.7164	1.48679	5.00E-05
ENSG00000261040	CTD-231912.1	17:58156669-58169246	1.11965	5.63151	2.33048	5.00E-05	1.20624	6.93958	2.52433	0.0007
ENSG00000181031	RPH3AL	17:62292-236045	2.11877	0.586255	-1.85363	5.00E-05	2.28002	1.07455	-1.08531	0.00355
ENSG00000204347	BTBD17	17:72325254-72358085	1.65153	0.788022	-1.0675	0.0082	1.77241	0.525524	-1.75389	0.0013
ENSG00000167874	TMEM88	17:7758382-7759417	1.11316	6.2254	2.48351	5.00E-05	1.1978	6.93292	2.53308	0.0001
ENSG00000171246	NPTX1	17:78440947-78451643	59.1957	0.559245	-6.72587	5.00E-05	63.7499	32.2662	-0.982398	0.0011
ENSG00000265766	CXADRP3	18:14477953-14499277	1.15377	0.0562215	-4.35909	0.00245	1.24434	0.278688	-2.15865	0.00085
ENSG00000170558	CDH2	18:25530929-25757410	20.4645	65.6665	1.68203	5.00E-05	22.0624	72.6712	1.7198	5.00E-05
ENSG00000158270	COLEC12	18:319360-500722	1.24111	8.11346	2.70869	5.00E-05	1.33683	6.72	2.32964	5.00E-05
ENSG00000152229	PSTPIP2	18:43563501-43652238	1.44991	4.50766	1.63641	5.00E-05	1.56319	3.12854	1.001	0.00705
ENSG00000198796	ALPK2	18:56148478-56296189	0.2662	1.41302	2.4082	5.00E-05	0.286805	3.34163	3.54241	5.00E-05
ENSG00000141682	PMAIP1	18:57567179-57571538	78.0662	45.7894	-0.769686	5.00E-05	84.193	54.8931	-0.617074	0.0079
ENSG00000173482	PTPRM	18:7566779-8406951	2.94374	9.31805	1.66238	5.00E-05	3.17203	7.89706	1.31591	0.0001
ENSG00000213339	QTRT1	19:10812105-10824113	28.6725	18.9965	-0.593931	0.0081	30.8265	16.8535	-0.871123	0.00175
ENSG00000130176	CNIN1	19:11649531-11661138	11.5603	33.2595	1.52459	5.00E-05	12.4348	26.0772	1.06841	0.0044
ENSG00000130513	GDF15	19:18485540-18499986	0.920474	8.2025	3.15561	5.00E-05	0.988045	9.5151	3.26757	5.00E-05

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs ips-HM1			ips-KS2 vs ips-HM2				
			Avg-value-ips-KS2	Avg-value-ips-HM1	log2 (fold_change)	p_value	Avg-value-ips-KS2	Avg-value-ips-HM2	log2 (fold_change)	p_value
ENSG00000172687	ZNF738	19:21541731-21562104	82.0138	45.7405	-0.842396	5.00E-05	88.4067	47.8092	-0.886868	0.00045
ENSG00000004777	ARHGAP33	19:36265433-36279724	6.83078	3.49088	-0.968459	0.0004	7.34787	3.97277	-0.88718	0.00695
ENSG00000161281	COX7A1	19:36641823-36643771	0.431152	2.08472	2.27359	0.0005	0.463528	1.66368	1.84365	0.00495
ENSG00000129946	SHC2	19:416582-460996	0.94578	1.98378	1.06868	0.00385	1.01792	2.35754	1.21167	0.00955
ENSG00000105246	EBI3	19:4229494-4237528	0.27246	2.3847	3.1297	5.00E-05	0.29294	1.56382	2.4164	0.00075
ENSG00000167680	SEMA6B	19:4542599-4559820	14.5466	9.52982	-0.610165	0.00635	15.6487	8.81334	-0.828282	0.00855
ENSG00000105499	PLA2G4C	19:48551099-48614074	9.16404	4.49254	-1.02845	0.00125	9.8725	4.63716	-1.09018	0.00585
ENSG00000142227	EMP3	19:48799713-48833810	11.8105	33.0499	1.48458	5.00E-05	12.7132	25.852	1.02395	0.00965
ENSG00000105357	MYH14	19:50691442-50813802	5.14913	3.06734	-0.747338	0.00445	5.54256	0.108385	-5.67631	5.00E-05
ENSG00000189190	ZNF600	19:53267447-53290044	1.75991	7.09505	2.01131	5.00E-05	1.89725	5.20033	1.45469	0.00145
ENSG00000167785	ZNF558	19:8920379-8943004	6.94662	11.874	0.773428	0.0004	7.48756	14.6901	0.972277	0.00065
ENSG00000144063	MALL	2:110841446-110874143	3.45053	1.42854	-1.27227	0.00725	3.71455	1.34703	-1.4634	0.00355
ENSG00000172965	MIR4435-1HG	2:111953539-112268567	15.5027	42.2303	1.44576	5.00E-05	16.7049	44.1759	1.40299	0.00115
ENSG00000121966	CXCR4	2:136871918-136875735	1.216	7.66615	2.65636	5.00E-05	1.31093	8.44057	2.68675	5.00E-05
ENSG00000169554	ZEB2	2:145141647-145282147	0.324023	1.1347	1.80815	5.00E-05	0.349125	1.75394	2.32878	5.00E-05
ENSG00000128683	GADI	2:171669722-171717661	0.575906	1.79227	1.63788	0.0023	0.620218	2.16696	1.80482	0.0058
ENSG00000138448	ITGAV	2:187454791-187630685	19.1492	44.9734	1.23179	5.00E-05	20.6575	43.6817	1.08037	0.00025
ENSG00000003436	TFPI	2:187866602-188430487	2.50283	13.9309	2.47666	5.00E-05	2.69833	12.433	2.20403	0.0001
ENSG00000168542	COL3A1	2:189839045-189877472	1.00076	31.3628	4.96989	5.00E-05	1.07826	19.6302	4.1863	5.00E-05

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs iPS-HMI			ips-KS2 vs ips-HM2				
			Avg-value- ips-KS2	Avg-value- ips-HMI	log2 (fold_change)	p_value	Avg-value- ips-KS2	Avg-value- ips-HM2	log2 (fold_change)	p_value
ENSG00000204262	COL5A2	2:189896621- 190044605	11.3944	30.9626	1.4422	5.00E-05	12.2772	29.6556	1.27233	5.00E-05
ENSG00000132031	MATN3	2:20189977- 20212455	3.78969	13.4153	1.82373	5.00E-05	4.08462	9.8318	1.26725	0.00015
ENSG00000143878	RHOB	2:20646834- 20649200	5.05535	15.133	1.58181	5.00E-05	5.44134	13.2577	1.2848	5.00E-05
ENSG00000115414	FN1	2:216225162- 216300895	37.9862	282.107	2.8927	5.00E-05	40.9216	264.897	2.6945	5.00E-05
ENSG00000115461	IGFBP5	2:217536827- 217858802	2.22225	3.92855	0.821973	0.00095	2.39269	15.6248	2.70713	5.00E-05
ENSG00000135919	SERPINE2	2:224839828- 224904036	43.2902	122.28	1.49807	5.00E-05	46.6574	75.0343	0.685443	0.0048
ENSG00000244280	ECELIP2	2:233250459- 233252167	0.623618	2.28675	1.87457	0.00015	0.67163	2.45491	1.86993	0.0017
ENSG00000168918	INPP5D	2:233924676- 234116549	3.19805	6.29754	0.977597	5.00E-05	3.44234	6.56872	0.932223	0.0004
ENSG00000075426	FOSL2	2:28607275- 28640179	0.620467	2.0285	1.70899	5.00E-05	0.668118	2.24546	1.74883	0.00015
ENSG00000068781	STON1- GTF2AIL	2:48756521- 49003654	0.00837146	1.99407	7.89602	0.0008	0.0090312	3.83572	8.73037	0.003
ENSG00000115902	SLC1A4	2:65215610- 65250999	0.395295	2.88437	2.86725	5.00E-05	0.425897	2.03683	2.25775	5.00E-05
ENSG00000163017	ACTG2	2:74119440- 74146992	5.31005	21.6283	2.02612	5.00E-05	5.71662	19.0317	1.73517	5.00E-05
ENSG00000222041	LINC00152	2:87754886- 87906324	12.3324	46.6186	1.91846	5.00E-05	13.2877	37.2864	1.48856	0.00035
ENSG00000125848	FLRT3	20:13829892- 16033842	1.23787	3.15348	1.34909	0.00065	1.33537	6.07457	2.18554	5.00E-05
ENSG00000170373	CST1	20:23728189- 23731905	3.36954	81.4968	4.59612	5.00E-05	3.62856	209.022	5.84812	5.00E-05
ENSG00000101003	GIN51	20:25388362- 25433264	38.0563	22.7806	-0.740331	0.00015	41.0514	25.4504	-0.689741	0.00235
ENSG00000198959	TGM2	20:36756862- 36794980	0.454003	4.81229	3.40595	5.00E-05	0.488741	5.98291	3.61371	5.00E-05
ENSG00000124143	ARHGAP40	20:37230576- 37279678	0.107885	1.49167	3.78936	5.00E-05	0.116091	1.36287	3.55333	5.00E-05
ENSG00000101220	C20orf27	20:3734154- 3749034	36.775	23.1912	-0.665146	0.00205	39.5651	23.945	-0.724509	0.00875

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs ips-HM1			ips-KS2 vs ips-HM2				
			Avg-value-ips-KS2	Avg-value-ips-HM1	log2 (fold_change)	p_value	Avg-value-ips-KS2	Avg-value-ips-HM2	log2 (fold_change)	p_value
ENSG00000132646	PCNA	20:5095598-5107272	230.652	148.03	-0.639829	5.00E-05	248.541	164.868	-0.592177	0.0084
ENSG00000125872	LRRN4	20:6021423-6034695	0.288039	2.46779	3.09888	5.00E-05	0.309611	1.41057	2.18775	0.00025
ENSG00000101198	NKAIN4	20:61872135-61904046	2.06333	4.81476	1.22249	5.00E-05	2.22071	7.29758	1.7164	5.00E-05
ENSG00000228592	AF000459.4	21:24733425-24757182	10.9904	3.49968	-1.65094	5.00E-05	11.8659	0.911037	-3.70316	5.00E-05
ENSG00000154734	ADAMTS1	21:28208065-28217728	6.39343	21.3361	1.73863	5.00E-05	6.8903	14.7437	1.09746	0.0002
ENSG00000154736	ADAMTS5	21:28261694-28338832	0.307242	2.23517	2.86294	5.00E-05	0.331381	1.77712	2.42298	5.00E-05
ENSG00000156253	RWDD2B	21:30376704-30391699	12.0628	3.60486	-1.74256	5.00E-05	13.0108	6.91954	-0.910963	0.0038
ENSG00000159079	C21orf59	21:33948861-33985176	39.2115	24.5971	-0.672791	0.0009	42.2116	26.0414	-0.696829	0.00495
ENSG00000184012	TMPRSS2	21:42836477-42903043	8.26957	3.05281	-1.43767	5.00E-05	8.90684	4.74025	-0.909951	0.00145
ENSG00000100033	PRODH	22:18893540-18924066	7.34023	44.3609	2.59539	5.00E-05	7.89852	19.0042	1.26667	0.00095
ENSG00000260065	CTA-445C9.15	22:26917948-26921002	4.81872	2.76274	-0.802553	0.00135	5.19708	2.21337	-1.23146	0.0008
ENSG00000100122	CRYBB1	22:26995241-27014052	2.12384	0.601774	-1.81938	5.00E-05	2.28565	0.590583	-1.95239	0.00085
ENSG00000128283	CDC42EP1	22:37956453-37965412	1.41694	4.18748	1.5633	5.00E-05	1.52374	3.70489	1.28182	0.00295
ENSG00000100097	LGALS1	22:38071614-38075813	19.4504	34.3517	0.820578	0.00095	20.93	49.8986	1.25342	0.0001
ENSG00000100311	PDGFB	22:39619363-39640756	0.7293	3.05251	2.06541	5.00E-05	0.78468	2.92298	1.89726	5.00E-05
ENSG000000091986	CCDC80	3:112323406-112368377	3.54708	16.5016	2.2179	5.00E-05	3.82183	7.75521	1.0209	0.0053
ENSG00000163430	FSTL1	3:12011139-120170100	102.894	163.998	0.672512	0.0049	110.833	188.713	0.76781	0.00625
ENSG00000174640	SLCO2A1	3:133651539-133771028	0.798757	3.66587	2.19833	5.00E-05	0.859783	3.46694	2.01162	5.00E-05
ENSG00000152952	PLOD2	3:145781828-145881440	13.5591	22.4955	0.730374	5.00E-05	14.6299	23.9394	0.710469	0.0036

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs ips-HMI			ips-KS2 vs ips-HM2				
			Avg-value- ips-KS2	Avg-value- ips-HMI	log2 (fold_change)	p_value	Avg-value- ips-KS2	Avg-value- ips-HM2	log2 (fold_change)	p_value
ENSG00000169908	TM4SF1	3:149086808-149104370	1.2252	3.55562	1.53709	5.00E-05	1.32115	9.26921	2.81065	5.00E-05
ENSG00000013297	CLDN11	3:170136652-170578169	1.76626	9.17575	2.37713	5.00E-05	1.90325	5.45285	1.51855	0.00105
ENSG00000163584	RPL22L1	3:170582663-170588272	246.539	133.728	-0.88252	0.0001	265.781	144.378	-0.880388	0.0034
ENSG00000172667	ZMAT3	3:178735010-178790067	1.96184	7.42713	1.9206	5.00E-05	2.11639	3.89375	0.879555	0.00785
ENSG00000145012	LPP	3:187868993-188608460	5.58354	17.6493	1.66036	5.00E-05	6.02095	12.5237	1.0566	0.0014
ENSG00000114315	HES1	3:193853933-193856521	1.97017	5.36132	1.44427	5.00E-05	2.12038	6.32808	1.57745	5.00E-05
ENSG00000114270	COL7A1	3:48601505-48632700	3.24902	18.0279	2.47215	5.00E-05	3.49706	13.1988	1.91619	0.0021
ENSG00000134107	BHLHE40	3:4938492-5027008	0.602773	4.00329	2.7315	5.00E-05	0.649134	5.61167	3.11184	5.00E-05
ENSG00000164076	CAMKV	3:49895420-49907655	50.8519	27.6932	-0.876773	0.0008	54.7416	22.105	-1.30826	5.00E-05
ENSG00000114854	TNNC1	3:52485117-52488086	3.45504	6.59982	0.933723	0.00185	3.71913	9.73205	1.38778	0.0005
ENSG00000163638	ADAMTS9	3:64501332-64997143	0.251705	1.34714	2.4201	5.00E-05	0.271519	1.60851	2.5666	0.0002
ENSG00000144749	LRIG1	3:66119284-66551687	50.3354	19.7937	-1.34653	5.00E-05	54.2096	34.8097	-0.63906	0.00785
ENSG00000206538	VGLL3	3:86987118-87040269	2.13154	4.95065	1.21572	5.00E-05	2.30038	4.81435	1.06547	0.00095
ENSG00000144810	COL8A1	3:99357318-99518070	0.735886	3.0173	2.03571	0.0006	0.792992	9.46833	3.57773	5.00E-05
ENSG00000145349	CAMK2D	4:114372187-114683083	3.22807	7.27878	1.17302	5.00E-05	3.4816	9.48298	1.44559	0.00025
ENSG00000138650	PCDH10	4:134070469-134129356	1.06989	5.98825	2.48468	5.00E-05	1.15254	5.92666	2.36241	5.00E-05
ENSG00000137449	CFEB2	4:15004297-15447790	0.69755	1.9432	1.47806	0.0001	0.752562	1.79396	1.25327	0.00515
ENSG00000151962	RBM46	4:155675907-155749965	0.457294	3.66008	3.00068	5.00E-05	0.493276	1.72433	1.80557	0.0015
ENSG00000145431	PDGFC	4:157681605-157892546	1.8701	3.43466	0.877051	0.0065	2.0156	6.81572	1.75766	5.00E-05

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs ips-HMI			ips-KS2 vs ips-HM2				
			Avg-value- ips-KS2	Avg-value- ips-HMI	log2 (fold_change)	p_value	Avg-value- ips-KS2	Avg-value- ips-HM2	log2 (fold_change)	p_value
ENSG00000164125	FAM198B	4:159045625-159176563	0.160853	2.72202	4.08087	5.00E-05	0.173425	5.70217	5.03913	0.00985
ENSG00000164120	HPGD	4:175411327-175444305	1.01052	6.25184	2.62918	5.00E-05	1.09068	2.97453	1.44744	0.00175
ENSG00000154553	PDLIM3	4:186422850-186456766	1.84711	4.67653	1.34017	5.00E-05	1.98932	7.5323	1.92081	5.00E-05
ENSG00000145147	SLIT2	4:20254882-20622184	1.8674	3.46235	0.890722	0.0004	2.01324	3.62686	0.849206	0.008
ENSG00000064042	LIMCH1	4:41361623-41702061	1.57858	8.22272	2.38099	5.00E-05	1.70118	4.64119	1.44796	0.001
ENSG00000163071	SPATA18	4:52917496-52963458	0.558696	1.8043	1.69131	0.0006	0.60242	1.47761	1.29442	0.00585
ENSG00000197701	ZNF595	4:53178-88099	15.9187	8.03232	-0.986832	0.0052	17.1557	6.6889	-1.35885	0.0003
ENSG00000163735	CXCL5	4:74861358-74864496	31.3668	10.7727	-1.54185	5.00E-05	33.8392	12.5986	-1.42544	5.00E-05
ENSG00000169116	PARM1	4:75858304-75975325	1.67331	6.8416	2.03163	5.00E-05	1.80396	3.87888	1.10448	0.0006
ENSG00000138772	ANXA3	4:79472672-79531597	12.0394	46.4562	1.94811	5.00E-05	12.9768	30.5451	1.23501	5.00E-05
ENSG00000163624	CDS1	4:85504131-85572491	11.2597	6.64959	-0.759826	0.00015	12.1446	7.2799	-0.73833	0.0049
ENSG00000118785	SPP1	4:88896818-88904562	30.5599	259.215	3.08444	5.00E-05	32.9387	122.462	1.89448	5.00E-05
ENSG00000152208	GRID2	4:93225549-94695707	31.3415	16.4247	-0.93221	5.00E-05	33.7879	14.6317	-1.20741	5.00E-05
ENSG00000113083	LOX	5:121297655-121413980	0.890882	5.81252	2.70586	5.00E-05	0.960827	7.80639	3.02231	0.0007
ENSG00000138829	FBN2	5:127593600-128369335	5.41848	17.0584	1.65453	5.00E-05	5.83794	19.4638	1.73726	5.00E-05
ENSG00000072682	P4HA2	5:131520568-131731306	2.9068	8.50149	1.54828	5.00E-05	3.13097	11.3335	1.85591	5.00E-05
ENSG00000120708	TGFBI	5:135364583-135399507	6.0907	33.5153	2.46014	5.00E-05	6.5653	16.5867	1.3371	5.00E-05
ENSG00000120738	EGR1	5:137801178-137805004	2.04743	7.33532	1.84105	5.00E-05	2.20727	12.2851	2.47658	5.00E-05
ENSG00000113070	HBEGF	5:139712427-139726216	1.92865	3.69722	0.938846	0.0003	2.07789	7.12937	1.77866	5.00E-05

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs ips-HMI			ips-KS2 vs ips-HM2				
			Avg-value- ips-KS2	Avg-value- ips-HMI	log2 (fold_change)	p_value	Avg-value- ips-KS2	Avg-value- ips-HM2	log2 (fold_change)	p_value
ENSG00000156453	PCDH1	5:141232937- 141258811	65.2248	41.9071	-0.638226	0.00025	70.2169	34.597	-1.02117	5.00E-05
ENSG00000156475	PPP2R2B	5:145942788- 146464347	19.2091	12.5231	-0.617192	0.00415	20.695	11.4865	-0.849335	0.00185
ENSG00000171992	SYNPO	5:149980641- 150038782	0.67668	2.63894	1.96341	5.00E-05	0.728437	3.37648	2.21264	5.00E-05
ENSG00000113140	SPARC	5:151040656- 151104343	292.686	776.779	1.40815	5.00E-05	315.139	601.398	0.932333	0.0055
ENSG00000184347	SLIT3	5:168081517- 168728133	0.389928	1.66997	2.09854	0.0007	0.419586	1.24497	1.56907	0.00875
ENSG00000170089	RPI1	5:177236407- 177410055	11.6008	7.53577	-0.622393	0.0077	12.4957	7.30798	-0.773882	0.0099
ENSG00000113361	CDH6	5:31094083- 31329253	3.16613	5.85718	0.887485	0.00995	3.41215	15.7453	2.20617	5.00E-05
ENSG00000134352	IL6ST	5:55230922- 55290821	2.20107	5.89538	1.42138	5.00E-05	2.37656	4.59368	0.950777	0.00835
ENSG00000145632	PLK2	5:57749808- 57756087	6.91493	39.0019	2.49576	5.00E-05	7.45089	25.2483	1.7607	5.00E-05
ENSG00000254353	RPI1	5:70328994- 70330227	1.63878	4.01139	1.29148	0.0013	1.7662	6.44662	1.86789	0.001
ENSG00000145736	GTF2H2	5:70330783- 70363516	24.5006	11.5261	-1.08791	5.00E-05	26.4456	11.9603	-1.14478	0.00065
ENSG00000176928	GCNT4	5:74323288- 74326724	2.03588	21.2459	3.38346	5.00E-05	2.19699	10.4368	2.24808	5.00E-05
ENSG00000145708	CRHBP	5:76248537- 76276983	0.592174	6.08322	3.36074	5.00E-05	0.638493	2.03612	1.67308	0.0073
ENSG00000132840	BHMT2	5:78293437- 78531861	0.142077	1.35488	3.25341	0.0016	0.153116	1.12738	2.88028	0.0064
ENSG00000145681	HAPLN1	5:82933623- 83017432	5.44109	63.9767	3.55558	5.00E-05	5.86431	40.4238	2.78517	5.00E-05
ENSG00000164292	RHOBTB3	5:95036952- 95160087	3.10925	5.9937	0.94688	0.0008	3.35379	8.51239	1.34377	0.00025
ENSG00000078401	EDN1	6:12290595- 12297427	1.68599	11.1666	2.72753	5.00E-05	1.81698	9.30995	2.35723	5.00E-05
ENSG00000118523	CTGF	6:132269315- 132398533	91.7174	144.253	0.653332	0.0001	98.7663	182.319	0.884378	0.00325
ENSG00000112414	GPR126	6:142622990- 142767403	1.99594	5.39444	1.43441	5.00E-05	2.15203	6.07645	1.49753	5.00E-05

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs iPS-HMI			ips-KS2 vs ips-HM2				
			Avg-value-ips-KS2	Avg-value-ips-HMI	log2 (fold_change)	p_value	Avg-value-ips-KS2	Avg-value-ips-HM2	log2 (fold_change)	p_value
ENSG00000226673	LINC01108	6:14280357-14285376	1.80588	77.1216	5.41636	5.00E-05	1.94594	10.0948	2.37508	5.00E-05
ENSG00000112183	RBM24	6:17281576-17294106	0.263112	1.06152	2.01238	0.00035	0.283677	2.12889	2.90778	5.00E-05
ENSG00000180573	HIST1H2AC	6:26124372-26139344	12.9931	4.15666	-1.64425	5.00E-05	14.0061	5.91305	-1.24408	0.0007
ENSG00000170542	SERPINB9	6:2887499-2903514	16.2998	28.5186	0.807043	5.00E-05	17.5735	31.0115	0.819407	0.00115
ENSG00000137331	IER3	6:30710705-30712331	5.31441	18.0291	1.76235	5.00E-05	5.71806	20.6409	1.85191	5.00E-05
ENSG00000234745	HLA-B	6:31321648-31325414	16.8123	35.9813	1.09773	5.00E-05	18.0864	32.1003	0.82768	0.0022
ENSG00000204472	AIFI	6:31582960-31584798	17.0555	4.10634	-2.05431	5.00E-05	18.3744	8.01246	-1.19738	0.00585
ENSG00000124762	CDKN1A	6:36644304-36655116	3.67604	33.2624	3.17767	5.00E-05	3.95639	20.353	2.36299	5.00E-05
ENSG00000112232	KHDRBS2	6:62340137-62996132	2.45774	0.855975	-1.52169	5.00E-05	2.64972	0.695711	-1.92928	5.00E-05
ENSG00000111799	COL12A1	6:75794041-75915767	0.913497	11.8497	3.69731	5.00E-05	0.984227	10.1483	3.36611	5.00E-05
ENSG00000112773	FAM46A	6:82201155-82462491	1.04429	2.61724	1.32553	5.00E-05	1.12658	2.15093	0.933012	0.00955
ENSG00000135318	NTSE	6:86159808-86205500	0.54222	1.44077	1.40989	0.00015	0.584552	3.55447	2.60423	5.00E-05
ENSG00000106366	SERPINE1	7:100770369-100782547	4.03572	58.0724	3.84695	5.00E-05	4.34688	70.9352	4.02845	5.00E-05
ENSG00000135269	TES	7:115850546-116148595	18.0053	35.3679	0.974015	5.00E-05	19.4119	32.3632	0.737414	0.00755
ENSG00000105974	CAVI	7:116164838-116201233	13.1714	85.4734	2.69807	5.00E-05	14.1963	48.1668	1.76253	5.00E-05
ENSG00000184408	KCND2	7:119913721-120392568	3.7732	1.45803	-1.37177	5.00E-05	4.06854	1.99068	-1.03125	0.00425
ENSG00000135248	FAM71F1	7:128349114-128371797	0.908091	5.20021	2.51766	5.00E-05	0.978584	9.12448	3.22097	5.00E-05
ENSG00000128591	FLNC	7:128470430-128550773	2.9373	21.7771	2.89025	5.00E-05	3.16031	12.4201	1.97454	0.0034
ENSG00000122786	CALD1	7:134429002-134655479	74.7097	270.505	1.85629	5.00E-05	80.5448	168.64	1.06609	0.0006

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs iPS-HMI			ips-KS2 vs ips-HM2				
			Avg-value- ips-KS2	Avg-value- iPS-HMI (fold_change)	log2	p_value	Avg-value- ips-KS2	Avg-value- ips-HM2 (fold_change)	log2	p_value
ENSG00000106538	RARRES2	7:150035407- 150038763	70.0058	34.1052	-1.03748	5.00E-05	75.2994	42.8225	-0.814271	0.0023
ENSG00000122691	TWIST1	7:19060613- 19157295	0.0899663	2.1458	4.57599	0.0042	0.0967533	1.10778	3.51721	0.00195
ENSG00000105926	MPP6	7:24612886- 24733812	33.8245	19.8486	-0.769033	0.00045	36.4686	20.2035	-0.852054	0.0016
ENSG00000146592	CREB5	7:28338939- 28865511	0.577512	3.82334	2.72691	5.00E-05	0.621357	2.84346	2.19415	0.00015
ENSG00000164619	BMPER	7:33944522- 34195484	0.244671	3.31531	3.76023	5.00E-05	0.263679	2.29915	3.12424	5.00E-05
ENSG00000106631	MYL7	7:44178462- 44180931	2.33874	19.8431	3.08483	5.00E-05	2.51724	20.7116	3.04052	5.00E-05
ENSG00000146674	IGFBP3	7:45951948- 45961473	10.9723	23.5972	1.10475	5.00E-05	11.8208	38.6158	1.70786	5.00E-05
ENSG00000146648	EGFR	7:55086713- 55324313	0.983733	1.5391	0.645749	0.00645	1.06006	1.89425	0.837473	0.00755
ENSG00000106153	CHCHD2	7:56169261- 56174269	60.0706	1.96659	-4.93289	5.00E-05	64.6355	37.5857	-0.782141	0.00315
ENSG00000122674	CCZ1	7:5938355- 6010314	28.6589	13.5326	-1.08254	5.00E-05	30.891	10.9618	-1.4947	5.00E-05
ENSG00000233369	RPI1-396K3.1	7:72569032- 72619657	6.88155	3.54027	-0.958874	0.0001	7.41836	4.20818	-0.817903	0.0085
ENSG00000075223	SEMA3C	7:80371853- 80551675	1.24111	3.51388	1.50143	0.00065	1.33762	8.20935	2.6176	5.00E-05
ENSG00000164692	COL1A2	7:94023872- 94060544	37.7858	71.2441	0.914926	0.0006	40.7267	99.2973	1.28578	0.0006
ENSG00000158560	DYNC113	7:95401865- 95739634	0.445289	1.38562	1.63771	0.00055	0.479846	1.7269	1.84755	0.0014
ENSG00000164932	CTHRC1	8:104383742- 104395225	2.586	8.77186	1.76216	5.00E-05	2.78564	10.5662	1.92338	5.00E-05
ENSG00000164761	TNFRSF11B	8:119935795- 119964439	0.604945	2.03513	1.75024	5.00E-05	0.652184	2.29157	1.81299	0.0014
ENSG00000170961	HAS2	8:122624355- 122656933	0.847762	11.7581	3.79385	5.00E-05	0.915347	7.63127	3.05953	5.00E-05
ENSG00000156802	ATAD2	8:124332089- 124428590	14.6839	8.53274	-0.783151	5.00E-05	15.8365	8.85514	-0.838668	0.00055
ENSG00000164741	DLC1	8:12940869- 13373167	0.814436	2.66935	1.71262	5.00E-05	0.877407	2.86413	1.70678	0.0001

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs iPS-HMI			ips-KS2 vs ips-HM2				
			Avg-value-ips-KS2	Avg-value-ips-HMI	log2 (fold_change)	p_value	Avg-value-ips-KS2	Avg-value-ips-HM2	log2 (fold_change)	p_value
ENSG00000253507	CTD-250IM5.1	8:132320791-132329879	8.58242	37.6428	2.13292	5.00E-05	9.24664	25.2012	1.44649	5.00E-05
ENSG00000132297	HHLA1	8:133036466-133123406	2.33109	46.2503	4.31039	5.00E-05	2.51222	8.64328	1.78261	5.00E-05
ENSG00000104419	NDRG1	8:134249413-134314265	1.087	3.98466	1.87411	5.00E-05	1.1709	4.47704	1.93492	5.00E-05
ENSG00000168487	BMP1	8:22022248-22069839	1.74049	3.62175	1.0572	0.0005	1.87222	6.75337	1.85086	5.00E-05
ENSG00000173535	TNFRSF10C	8:22941867-22974950	1.98371	9.46226	2.25399	5.00E-05	2.13501	5.31045	1.31459	0.00075
ENSG00000173530	TNFRSF10D	8:22993100-23021543	6.96459	14.8299	1.0904	5.00E-05	7.50368	13.0897	0.802764	0.0042
ENSG00000104725	NIEFL	8:24808467-24814624	2.34981	4.87639	1.05327	5.00E-05	2.53062	5.85411	1.20996	0.0002
ENSG00000120875	DUSP4	8:29190580-29208185	0.681478	4.35302	2.67528	5.00E-05	0.733816	2.01716	1.45883	0.0001
ENSG00000168615	ADAM9	8:38854387-38962663	11.0482	19.4124	0.813162	5.00E-05	11.9167	19.8159	0.733672	0.0066
ENSG00000029534	ANK1	8:41510738-41754280	1.21123	3.02184	1.31895	5.00E-05	1.30314	2.48752	0.932719	0.0071
ENSG00000019549	SNAI2	8:49830248-49834299	0.404403	2.37246	2.55252	5.00E-05	0.435974	2.29228	2.39447	5.00E-05
ENSG00000147601	TERF1	8:73921098-73960357	572.332	267.67	-1.09639	5.00E-05	617.495	346.257	-0.834583	0.0023
ENSG000000253252	RP11-10A14.6	8:9037760-9040029	0	4.42862	inf	5.00E-05	0	1.03622	inf	0.0012
ENSG000000248538	RP11-10A14.5	8:9046520-9060364	0.275335	4.12148	3.90391	0.00035	0.296672	2.16434	2.86699	0.0009
ENSG00000164951	PDP1	8:94870034-94938294	5.60476	21.5799	1.94496	5.00E-05	6.04331	11.6299	0.944429	0.0017
ENSG00000165124	SVEP1	9:113127530-113342160	0.312539	1.41189	2.17551	5.00E-05	0.336846	1.013	1.58847	0.0005
ENSG000000041982	TNCC	9:117782805-117880536	2.22838	7.98919	1.84206	5.00E-05	2.39921	7.14017	1.5734	5.00E-05
ENSG00000182752	PAPPA	9:118916082-119164601	0.187802	1.79379	3.25573	5.00E-05	0.202252	4.14758	4.35804	5.00E-05
ENSG00000136869	TLR4	9:120466609-120479149	0.210091	1.10328	2.39271	5.00E-05	0.226533	1.34845	2.57351	5.00E-05

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs ips-HMI			ips-KS2 vs ips-HM2				
			Avg-value- ips-KS2	Avg-value- ips-HMI	log2 (fold_change)	p_value	Avg-value- ips-KS2	Avg-value- ips-HM2	log2 (fold_change)	p_value
ENSG00000130635	COL5A1	9:137533619- 137736686	3.33049	18.3844	2.46468	5.00E-05	3.58412	21.3192	2.57246	5.00E-05
ENSG00000197355	UAP1L1	9:139971952- 139978991	0.606775	4.57521	2.9146	5.00E-05	0.652786	2.2364	1.7765	0.0003
ENSG00000147869	CER1	9:14719721- 14722715	1.84563	24.2891	3.71812	5.00E-05	1.98795	20.7551	3.38411	5.00E-05
ENSG00000269900	RMRP	9:35657747- 35658015	26.0247	7.66947	-1.76268	0.00025	28.0456	8.34011	-1.74964	0.00985
ENSG00000237357	RF11-475124.3	9:44400716- 44404440	1.02076	0.133668	-2.93292	5.00E-05	1.1001	0.231759	-2.24694	0.0009
ENSG00000135046	ANXA1	9:75766672- 75785309	6.89257	94.2297	3.77307	5.00E-05	7.42871	60.2759	3.0204	5.00E-05
ENSG00000156049	GNA14	9:80037994- 80263223	4.40563	12.9887	1.55984	5.00E-05	4.74616	10.3516	1.12502	0.00165
ENSG00000135070	ISCA1	9:88879460- 88897676	41.8408	25.7896	-0.698121	0.0002	45.1345	27.4581	-0.716997	0.00365
ENSG00000130222	GADD45G	9:92219927- 9221470	6.46598	1.166	-2.4713	5.00E-05	6.95156	2.49177	-1.48016	0.00215
ENSG00000133169	BEX1	X:102317578- 102319168	79.5155	45.6565	-0.800416	0.0001	85.6322	49.1935	-0.799686	0.0017
ENSG00000204065	TCEAL5	X:102528618- 102531800	7.22086	3.65137	-0.983732	0.00015	7.77663	4.08035	-0.930451	0.0073
ENSG00000133134	BEX2	X:102564273- 102565974	51.3975	26.2421	-0.969817	5.00E-05	55.357	32.3848	-0.773447	0.004
ENSG00000123560	PLP1	X:103028646- 103047548	46.3537	23.4755	-0.981529	5.00E-05	49.9903	23.6116	-1.08215	5.00E-05
ENSG00000123575	FAM199X	X:103411300- 103440583	14.0487	8.9738	-0.646649	0.00465	15.1588	7.97634	-0.926352	0.0007
ENSG00000101935	AMMECRI	X:109437413- 109699562	19.0622	11.7723	-0.695328	0.00025	20.5671	12.2024	-0.753178	0.0021
ENSG00000077279	DCX	X:110537006- 110655603	1.71526	0.334761	-2.35722	5.00E-05	1.8503	0.700751	-1.40079	0.0002
ENSG00000134602	MST4	X:131157292- 131209971	63.0283	41.7284	-0.59497	0.0004	68.0058	43.8449	-0.633249	0.00555
ENSG00000223749	MIR503HG	X:133677366- 133680741	0.802826	2.2467	1.48465	0.00715	0.86457	2.94517	1.7683	0.0091
ENSG00000169100	SLC25A6	X:1505044- 1511617	218.861	140.22	-0.642327	0.0003	235.183	152.029	-0.629432	0.00565

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Supplementary Table SX Continued

Gene id	Gene	Locus	ips-KS2 vs iPS-HM1			ips-KS2 vs ips-HM2				
			Avg-value-ips-KS2	Avg-value-ips-HM1 (fold_change)	p_value	Avg-value-ips-KS2	Avg-value-ips-HM2 (fold_change)	p_value		
ENSG0000011677	GABRA3	X:151307354-151619830	6.34072	2.67937	-1.24275	5.00E-05	6.83494	2.80392	-1.28548	5.00E-05
ENSG00000182492	BGN	X:152710177-152775012	1.90384	7.62195	2.00125	0.0001	2.04916	9.90801	2.27356	0.0003
ENSG00000130821	SLC6A8	X:152935184-152962048	32.9455	60.8098	0.884223	0.00015	35.4638	69.5426	0.971552	0.00015
ENSG00000169249	ZRSR2	X:15808594-15841383	10.6098	5.37127	-0.982057	5.00E-05	11.4325	5.58008	-1.03478	0.00105
ENSG00000182287	API52	X:15843928-15873054	188.781	82.6098	-1.19233	5.00E-05	203.784	114.26	-0.83472	0.00335
ENSG00000047230	CTPS2	X:16606125-16731059	26.6139	14.6026	-0.865956	0.00015	28.7035	15.6543	-0.874668	0.001
ENSG00000169895	SYAPI	X:16737754-16783459	12.2737	8.04671	-0.609101	0.001	13.2353	7.28739	-0.860915	0.00025
ENSG00000197976	AKAP17A	X:1710485-1721407	18.9011	11.9112	-0.66615	0.00055	20.3175	10.9261	-0.89494	0.0004
ENSG00000182378	PLCXDI	X:192988-220023	38.3285	24.1176	-0.66833	0.0018	41.2501	22.3603	-0.883459	0.00055
ENSG00000056998	GYG2	X:2746828-2800859	37.6952	20.6926	-0.865264	5.00E-05	40.5921	20.3858	-0.993634	5.00E-05
ENSG00000102003	SYF	X:49044268-49058913	5.45728	3.17208	-0.782756	0.0033	5.87387	2.69067	-1.12635	0.0007
ENSG00000146938	NILGN4X	X:5758677-6146904	76.9984	30.2148	-1.34958	5.00E-05	82.9799	34.8887	-1.25	5.00E-05
ENSG00000130021	HDHDI	X:6966960-7066231	28.3929	11.6832	-1.2811	5.00E-05	30.597	15.5268	-0.978632	0.0002
ENSG00000196338	NILGN3	X:70364680-70391051	9.36228	4.87829	-0.940486	5.00E-05	10.0809	5.73843	-0.812895	0.00495
ENSG00000229807	XIST	X:73012039-73072588	83.564	0.118778	-9.45846	5.00E-05	90.1464	0.0272482	-11.6919	5.00E-05
ENSG00000011201	KALI	X:8496914-8700227	59.8436	35.1564	-0.76741	0.00605	64.5294	25.2708	-1.35249	5.00E-05
ENSG00000186310	NAP1L3	X:92925928-92928567	51.7163	32.6614	-0.663033	0.0001	55.7831	28.8473	-0.951391	5.00E-05