

Supplementary Table 1 - JDM pre-treatment vs age-matched healthy control significantly DEG ($p \leq 0.05$)

Ensemble ID	hgnc_symbol	log fold change	Adjusted p value
ENSG00000172575	RASGRP1	-4.37211198	2.24E-24
ENSG00000167286	CD3D	-4.666564649	1.72E-22
ENSG00000107742	SPOCK2	-4.360415147	1.72E-22
ENSG00000180096		-2.213826247	4.96E-22
ENSG00000198821	CD247	-4.212664852	6.77E-22
ENSG00000198286	CARD11	-3.980638073	9.31E-21
ENSG00000211751	TRBC1	-4.429073007	2.03E-18
ENSG00000111371	SLC38A1	-2.385863349	2.03E-18
ENSG00000167984	NLRC3	-2.851013671	2.03E-18
ENSG00000211772	TRBC2	-3.848305286	4.30E-17
ENSG00000185101	ANO9	-4.119222231	4.76E-17
ENSG00000182866	LCK	-4.062812135	5.72E-17
ENSG00000115085	ZAP70	-4.147512211	9.18E-17
ENSG00000069667	RORA	-4.869341336	1.04E-16
ENSG00000101096	NFATC2	-2.831487036	1.35E-16
ENSG00000135127	BICDL1	-3.576759892	2.62E-16
ENSG00000160185	UBASH3A	-4.657218676	4.20E-15
ENSG00000172005	MAL	-5.377418997	6.46E-15
ENSG00000142173	COL6A2	-5.335273567	9.75E-15
ENSG00000088387	DOCK9	-3.222329725	1.77E-14
ENSG00000138795	LEF1	-4.449435465	2.96E-14
ENSG00000099204	ABLIM1	-3.584001413	5.79E-14
ENSG00000165929	TC2N	-4.804614256	1.08E-13
ENSG00000113263	ITK	-3.192369031	1.22E-13
ENSG00000197540	GZMM	-3.579783868	1.40E-13
ENSG00000198851	CD3E	-4.400703314	1.89E-13
ENSG00000127152	BCL11B	-4.806303961	3.23E-13
ENSG00000100385	IL2RB	-4.83925198	4.29E-13
ENSG00000142303	ADAMTS10	-2.457574491	4.40E-13
ENSG00000280135		-4.826963634	4.98E-13
ENSG00000152495	CAMK4	-3.355410449	6.37E-13
ENSG00000110448	CD5	-3.765399452	7.45E-13
ENSG00000111796	KLRB1	-5.177955918	1.17E-12
ENSG00000139193	CD27	-4.160431804	1.43E-12
ENSG00000215788	TNFRSF25	-2.605278827	1.55E-12
ENSG00000141293	SKAP1	-3.675465711	2.39E-12
ENSG00000277734	TRAC	-3.934848077	2.57E-12
ENSG00000013725	CD6	-3.720643916	4.88E-12
ENSG00000081059	TCF7	-3.983272099	6.34E-12
ENSG00000245164	LINC00861	-4.331322342	1.19E-11
ENSG00000163519	TRAT1	-4.069345096	2.49E-11
ENSG00000159753	CARMIL2	-2.23931152	3.71E-11
ENSG00000067840	PDZD4	-4.607733843	4.43E-11
ENSG00000162894	FCMR	-3.132791023	4.83E-11

ENSG00000168685	IL7R	-4.307669584	5.03E-11
ENSG00000146674	IGFBP3	-7.787654438	5.50E-11
ENSG00000174080	CTSF	-2.407169086	5.50E-11
ENSG00000175265	GOLGA8A	-2.453462265	5.50E-11
ENSG00000124181	PLCG1	-2.348427418	5.64E-11
ENSG00000134954	ETS1	-2.08406885	5.94E-11
ENSG00000065675	PRKCQ	-3.00987945	6.44E-11
ENSG00000211829	TRDC	-4.777951319	4.53E-10
ENSG00000130787	HIP1R	-2.935653694	5.00E-10
ENSG00000089012	SIRPG	-4.022974816	6.87E-10
ENSG00000165185	KIAA1958	1.963697048	7.68E-10
ENSG00000179639	FCER1A	-5.514315116	8.07E-10
ENSG00000112182	BACH2	-3.006094519	9.97E-10
ENSG00000008517	IL32	-3.607461402	1.04E-09
ENSG00000226950	DANCR	-1.844394618	1.14E-09
ENSG00000255198	SNHG9	-1.584034177	1.45E-09
ENSG00000187109	NAP1L1	-1.053601182	1.46E-09
ENSG00000100346	CACNA1I	-4.863194194	1.68E-09
ENSG00000079616	KIF22	-1.151215826	3.09E-09
ENSG00000116106	EPHA4	-5.567887063	3.15E-09
ENSG00000124203	ZNF831	-3.510236283	4.43E-09
ENSG00000173208	ABCD2	-4.72311326	4.46E-09
ENSG00000111674	ENO2	-3.196163577	6.30E-09
ENSG00000101224	CDC25B	-1.129481246	7.84E-09
ENSG00000107485	GATA3	-3.353634116	7.95E-09
ENSG00000055130	CUL1	1.136163256	8.91E-09
ENSG00000228903	RASA4CP	-1.536207884	9.19E-09
ENSG00000116251	RPL22	-0.877542988	9.87E-09
ENSG00000163359	COL6A3	-3.888005371	9.96E-09
ENSG00000114942	EEF1B2	-0.939459883	1.74E-08
ENSG00000027869	SH2D2A	-3.852281814	1.84E-08
ENSG00000101082	SLA2	-2.520074843	1.97E-08
ENSG00000184613	NELL2	-3.946342491	1.97E-08
ENSG00000181847	TIGIT	-5.155733666	3.11E-08
ENSG00000233355	CHRM3-AS2	-3.400645916	3.87E-08
ENSG00000107833	NPM3	-1.578034237	4.14E-08
ENSG00000197635	DPP4	-3.733699696	4.70E-08
ENSG00000130589	HELZ2	2.2513553	5.58E-08
ENSG00000178562	CD28	-3.098517385	6.00E-08
ENSG00000160710	ADAR	1.215480815	6.50E-08
ENSG00000227507	LTB	-1.862720539	6.84E-08
ENSG00000089009	RPL6	-0.748397376	9.87E-08
ENSG00000085662	AKR1B1	-1.089965676	1.10E-07
ENSG00000128739	SNRPN	-1.290619576	1.25E-07
ENSG00000112514	CUTA	-0.756058338	1.55E-07
ENSG00000213626	LBH	-2.388225632	1.67E-07
ENSG00000127586	CHTF18	-1.221094486	1.72E-07
ENSG00000196705	ZNF431	-1.021681712	1.84E-07

ENSG00000149527	PLCH2	-3.276347883	2.03E-07
ENSG00000115607	IL18RAP	-4.42371749	2.12E-07
ENSG00000172428	COPS9	-0.808347429	2.68E-07
ENSG00000160654	CD3G	-2.123428048	2.92E-07
ENSG00000118922	KLF12	-1.513965177	2.94E-07
ENSG00000178922	HYI	-2.027160481	3.36E-07
ENSG00000135960	EDAR	-5.309092358	3.67E-07
ENSG00000063180	CA11	-1.687963992	3.87E-07
ENSG00000204475	NCR3	-4.61496023	4.12E-07
ENSG00000183486	MX2	2.118433822	4.12E-07
ENSG00000137970	RPL7P9	-0.916475831	4.21E-07
ENSG00000224877	NDUF8	-1.514406584	4.21E-07
ENSG00000227008		-1.349140593	4.41E-07
ENSG00000198034	RPS4X	-0.787257334	4.53E-07
ENSG00000220205	VAMP2	-0.865276062	4.53E-07
ENSG00000162910	MRPL55	-0.98446521	4.65E-07
ENSG00000172673	THEMIS	-2.612768154	5.50E-07
ENSG00000144741	SLC25A26	-0.937348354	5.73E-07
ENSG00000105369	CD79A	-2.533950726	5.73E-07
ENSG00000211747	TRBV20-1	-5.001990395	6.45E-07
ENSG00000178429	RPS3AP5	-1.119313459	6.65E-07
ENSG00000153283	CD96	-3.718072664	6.94E-07
ENSG00000169116	PARM1	-3.833469332	6.99E-07
ENSG00000141542	RAB40B	-1.584822227	7.12E-07
ENSG00000136816	TOR1B	1.661466843	7.14E-07
ENSG00000167792	NDUFV1	-0.748355878	7.57E-07
ENSG00000105808	RASA4	-1.51149014	7.68E-07
ENSG00000255026		-3.923439409	8.16E-07
ENSG00000204252	HLA-DOA	-2.090582557	8.20E-07
ENSG00000157778	PSMG3	-0.957103712	9.02E-07
ENSG00000178982	EIF3K	-0.707875815	9.42E-07
ENSG00000113319	RASGRF2	-3.131596639	9.46E-07
ENSG00000109452	INPP4B	-2.808950053	9.80E-07
ENSG00000186468	RPS23	-0.801626846	1.06E-06
ENSG00000114023	FAM162A	-1.070150643	1.12E-06
ENSG00000170486	KRT72	-4.804621154	1.15E-06
ENSG00000249115	HAUS5	-0.900095482	1.24E-06
ENSG00000146285	SCML4	-2.5735471	1.29E-06
ENSG00000156110	ADK	-1.426476686	1.36E-06
ENSG00000055332	EIF2AK2	1.922776604	1.37E-06
ENSG00000151612	ZNF827	-3.605420689	1.44E-06
ENSG00000224078	SNHG14	-1.307941758	1.48E-06
ENSG00000161405	IKZF3	-1.575632044	1.58E-06
ENSG00000143947	RPS27A	-0.835493668	1.71E-06
ENSG00000138035	PNPT1	1.755181454	1.78E-06
ENSG00000169583	CLIC3	-5.395727002	1.93E-06
ENSG00000172366	MCRIP2	-1.306734612	2.31E-06
ENSG00000260314	MRC1	-2.728732538	2.38E-06

ENSG00000122406	RPL5	-0.740590485	2.44E-06
ENSG00000165272	AQP3	-3.260598656	2.49E-06
ENSG00000116824	CD2	-1.501793069	2.74E-06
ENSG00000168913	ENHO	-2.311462504	2.76E-06
ENSG00000262049		-1.147766491	2.76E-06
ENSG00000188157	AGRN	2.326251896	3.05E-06
ENSG00000142168	SOD1	-0.685890108	3.05E-06
ENSG00000135736	CCDC102A	-4.883665353	3.28E-06
ENSG00000132274	TRIM22	1.370483686	3.34E-06
ENSG00000198780	FAM169A	-3.813724924	3.46E-06
ENSG00000172508	CARNS1	-3.055639748	3.54E-06
ENSG00000076685	NT5C2	0.770884796	3.55E-06
ENSG00000126756	UXT	-0.744742703	3.63E-06
ENSG00000166889	PATL1	1.091549368	3.66E-06
ENSG00000106628	POLD2	-1.06206495	3.72E-06
ENSG00000188186	LAMTOR4	-0.916393548	3.72E-06
ENSG00000135919	SERPINE2	-3.558353077	3.76E-06
ENSG00000278133		-0.932403977	3.94E-06
ENSG00000117419	ERI3	-0.721420156	4.50E-06
ENSG00000124201	ZNFX1	1.267927481	4.50E-06
ENSG00000078596	ITM2A	-2.477412718	4.59E-06
ENSG00000132704	FCRL2	-2.799716883	4.89E-06
ENSG00000188322	SBK1	-2.399130703	4.89E-06
ENSG00000105373	GLTSCR2	-0.898508387	4.99E-06
ENSG00000126353	CCR7	-2.679354515	5.00E-06
ENSG00000174917	C19orf70	-0.871664951	5.25E-06
ENSG00000034053	APBA2	-2.53295175	5.27E-06
ENSG00000235162	C12orf75	-2.973063118	5.51E-06
ENSG00000142937	RPS8	-0.817559569	5.53E-06
ENSG00000153107	ANAPC1	-0.64329563	5.83E-06
ENSG00000213609	RPL7AP50	-1.845605555	6.32E-06
ENSG00000136573	BLK	-3.314176969	6.53E-06
ENSG00000185885	IFITM1	2.444848625	6.71E-06
ENSG00000115604	IL18R1	-3.674621514	6.90E-06
ENSG00000232869	TRBV29-1	-4.319513882	7.00E-06
ENSG00000147604	RPL7	-0.762630505	7.98E-06
ENSG00000137200	CMTR1	1.045635766	8.03E-06
ENSG00000173193	PARP14	1.73485482	8.53E-06
ENSG00000188785	ZNF548	-1.066082348	8.79E-06
ENSG00000106624	AEBP1	-2.950264749	9.39E-06
ENSG00000102245	CD40LG	-4.01657469	9.42E-06
ENSG00000271109		-3.797923107	9.42E-06
ENSG00000197180		-1.555610547	1.01E-05
ENSG00000007255	TRAPPC6A	-1.159126999	1.02E-05
ENSG00000117298	ECE1	1.020685313	1.07E-05
ENSG00000073861	TBX21	-3.363953663	1.08E-05
ENSG00000182774	RPS17	-0.762953277	1.09E-05
ENSG00000100836	PABPN1	-0.637710325	1.16E-05

ENSG00000186395	KRT10	-0.970691422	1.17E-05
ENSG00000232442		-1.609582123	1.18E-05
ENSG00000137154	RPS6	-0.712467915	1.18E-05
ENSG00000167106	FAM102A	-1.30879207	1.18E-05
ENSG00000119922	IFIT2	3.752091831	1.18E-05
ENSG00000160856	FCRL3	-2.978467614	1.24E-05
ENSG00000099622	CIRBP	-0.657377765	1.24E-05
ENSG00000188243	COMMD6	-0.655725038	1.24E-05
ENSG00000237702	TRBV3-1	-4.213118599	1.28E-05
ENSG00000186567	CEACAM19	-1.770816673	1.28E-05
ENSG00000185697	MYBL1	-2.32613539	1.30E-05
ENSG00000100316	RPL3	-0.705990222	1.34E-05
ENSG00000279865		-1.312120358	1.41E-05
ENSG00000174444	RPL4	-0.662627634	1.41E-05
ENSG00000100814	CCNB1IP1	-0.811013886	1.43E-05
ENSG00000180644	PRF1	-3.423921806	1.47E-05
ENSG00000089157	RPLP0	-0.733627731	1.47E-05
ENSG00000163600	ICOS	-2.73399507	1.48E-05
ENSG00000204580	DDR1	-1.78061951	1.61E-05
ENSG00000178035	IMPDH2	-1.092394288	1.62E-05
ENSG00000090266	NDUFB2	-0.839182412	1.62E-05
ENSG00000021300	PLEKHB1	-2.525709748	1.63E-05
ENSG00000105202	FBL	-0.625597097	1.63E-05
ENSG00000211896	IGHG1	-4.268185717	1.66E-05
ENSG00000072858	SIDT1	-1.381490694	1.73E-05
ENSG00000145649	GZMA	-3.776231117	1.73E-05
ENSG00000100351	GRAP2	-1.973045386	1.94E-05
ENSG00000263731		-1.264369828	1.95E-05
ENSG00000114127	XRN1	0.867428862	1.99E-05
ENSG00000205413	SAMD9	2.377337732	1.99E-05
ENSG00000198467	TPM2	-1.528219096	2.01E-05
ENSG00000196531	NACA	-0.570138659	2.01E-05
ENSG00000168028	RPSA	-0.753447691	2.06E-05
ENSG00000134321	RSAD2	3.564939193	2.21E-05
ENSG00000244968	LIFR-AS1	3.624087319	2.31E-05
ENSG00000145425	RPS3A	-0.801073471	2.50E-05
ENSG00000102921	N4BP1	1.093827658	2.50E-05
ENSG00000083845	RPS5	-0.834016354	2.74E-05
ENSG00000232573	RPL3P4	-0.932267398	2.82E-05
ENSG00000173114	LRRN3	-3.644425747	2.84E-05
ENSG00000225200		-1.295341307	2.88E-05
ENSG00000211897	IGHG3	-5.163121427	3.05E-05
ENSG00000166016	ABTB2	3.448181273	3.05E-05
ENSG00000168813	ZNF507	-1.327248828	3.05E-05
ENSG00000110717	NDUFS8	-0.717896287	3.29E-05
ENSG00000269892		-1.847138793	3.29E-05
ENSG00000214485	RPL7P1	-1.260392854	3.40E-05
ENSG00000162585	FAAP20	-0.74898593	3.45E-05

ENSG00000111716	LDHB	-0.844356557	3.50E-05
ENSG00000173436	MINOS1	-0.771644993	3.57E-05
ENSG00000174748	RPL15	-0.556475452	3.57E-05
ENSG00000148303	RPL7A	-0.661606989	3.57E-05
ENSG00000181754	AMIGO1	-2.495577933	3.63E-05
ENSG00000198755	RPL10A	-0.692288949	3.75E-05
ENSG00000089220	PEBP1	-0.806614569	3.90E-05
ENSG00000140464	PML	1.133861417	3.90E-05
ENSG00000198932	GPRASP1	-1.831353092	4.18E-05
ENSG00000169567	HINT1	-0.574863325	4.34E-05
ENSG00000108821	COL1A1	-5.660872721	4.35E-05
ENSG00000153933	DGKE	-1.000084265	4.36E-05
ENSG00000269911		-4.60673373	4.39E-05
ENSG00000173821	RNF213	1.400489637	4.54E-05
ENSG00000141664	ZCCHC2	1.437673678	4.63E-05
ENSG00000170989	S1PR1	-2.303846168	4.73E-05
ENSG00000228956	SATB1-AS1	-2.179636384	4.74E-05
ENSG00000005448	WDR54	-1.225430467	4.75E-05
ENSG00000114391	RPL24	-0.645439042	4.89E-05
ENSG00000137628	DDX60	2.140555487	4.99E-05
ENSG00000104490	NCALD	-2.941458087	4.99E-05
ENSG00000078589	P2RY10	-2.578006789	5.12E-05
ENSG00000124256	ZBP1	2.313964477	5.12E-05
ENSG00000160075	SSU72	-0.490398411	5.33E-05
ENSG00000127184	COX7C	-0.591688198	5.50E-05
ENSG00000175061	LRRC75A-AS1	-0.712997209	5.70E-05
ENSG00000187514	PTMA	-0.66370439	5.74E-05
ENSG00000164692	COL1A2	-5.311908165	5.74E-05
ENSG00000107201	DDX58	1.948164449	5.74E-05
ENSG00000247774	PCED1B-AS1	-1.138208676	5.74E-05
ENSG00000124172	ATP5E	-0.564331315	5.74E-05
ENSG00000184979	USP18	3.862304262	5.74E-05
ENSG00000232112	TMA7	-0.607479602	6.26E-05
ENSG00000183691	NOG	-3.790342064	6.33E-05
ENSG00000157570	TSPAN18	-3.930782241	6.38E-05
ENSG00000054654	SYNE2	-1.438675458	6.38E-05
ENSG00000163682	RPL9	-0.837035041	6.56E-05
ENSG00000137078	SIT1	-3.410523475	6.70E-05
ENSG00000100453	GZMB	-3.48671265	7.07E-05
ENSG00000138646	HERC5	2.73760257	7.23E-05
ENSG00000268205		-0.947871769	7.25E-05
ENSG00000167526	RPL13	-0.838321988	7.45E-05
ENSG00000168118	RAB4A	-0.570659018	8.24E-05
ENSG00000198934	MAGEE1	-4.44609927	8.30E-05
ENSG00000107223	EDF1	-0.640913802	8.32E-05
ENSG00000109475	RPL34	-0.774306329	8.49E-05
ENSG00000123349	PFDN5	-0.650102849	8.60E-05
ENSG00000269293	ZSCAN16-AS1	-0.895664556	8.93E-05

ENSG00000147123	NDUFB11	-0.704269437	8.93E-05
ENSG00000175854	SWI5	-0.989809919	9.57E-05
ENSG00000111912	NCOA7	1.315900313	9.87E-05
ENSG00000102030	NAA10	-0.832584601	1.00E-04
ENSG00000115267	IFIH1	1.787770848	0.000101806
ENSG00000280237	MIR4697HG	-4.082282477	0.000103373
ENSG00000213904	LIPE-AS1	-1.310858245	0.000103724
ENSG00000132185	FCRLA	-3.311934728	0.000104026
ENSG00000237943	PRKCQ-AS1	-1.856660035	0.000104932
ENSG00000213139	CRYGS	-1.280665004	0.000105641
ENSG00000259959		-1.394450458	0.000105641
ENSG00000168646	AXIN2	-4.548723571	0.000105641
ENSG00000163520	FBLN2	-2.726185674	0.000105795
ENSG00000111331	OAS3	2.922369795	0.000106087
ENSG00000172432	GTPBP2	0.835450041	0.000108081
ENSG00000196683	TOMM7	-0.829828497	0.00010827
ENSG00000104529	EEF1D	-0.58691008	0.000111495
ENSG00000165138	ANKS6	-1.514079768	0.000111495
ENSG00000213862		-0.801439697	0.000111495
ENSG00000105699	LSR	-3.418783114	0.000111731
ENSG00000155366	RHOC	-1.637991254	0.000114139
ENSG00000174500	GCSAM	-3.917508071	0.000114179
ENSG00000280120		-1.261390784	0.000114214
ENSG00000100027	YPEL1	-1.703045367	0.000114214
ENSG00000157601	MX1	2.59560948	0.000114214
ENSG00000113088	GZMK	-3.822962222	0.00011818
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ENSG00000172663	TMEM134	-0.797327479	0.000232242
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ENSG00000111907	TPD52L1	2.690874455	0.000248813
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