

Supplementary Table 3 - JDM pre-treatment vs on-treatment significantly DEG ($p \leq 0.05$)

Ensemble ID	hgnc_symbol	log fold change	Adjusted p value
ENSG00000185885	IFITM1	3.39862585	4.74E-33
ENSG00000055130	CUL1	1.164987546	3.41E-25
ENSG00000172183	ISG20	2.238676981	1.46E-23
ENSG00000183486	MX2	2.125286181	9.79E-22
ENSG00000136816	TOR1B	1.710487232	5.11E-21
ENSG00000134321	RSAD2	3.866490322	3.14E-20
ENSG00000124256	ZBP1	2.703954114	4.35E-20
ENSG00000138646	HERC5	3.179408173	9.85E-20
ENSG00000119922	IFIT2	3.804908949	2.40E-19
ENSG00000138035	PNPT1	1.77089402	3.41E-19
ENSG00000140464	PML	1.333071397	4.59E-19
ENSG00000165185	KIAA1958	1.555823901	5.45E-19
ENSG00000130487	KLHDC7B	2.573064724	5.45E-19
ENSG00000059378	PARP12	1.457083108	2.77E-18
ENSG00000184979	USP18	4.107072601	2.77E-18
ENSG00000163644	PPM1K	1.890727422	1.28E-17
ENSG00000187608	ISG15	3.03596484	1.51E-17
ENSG00000107201	DDX58	2.13754173	2.14E-17
ENSG00000137200	CMTR1	1.092391744	3.45E-17
ENSG00000115267	IFIH1	1.934848208	9.16E-16
ENSG00000138642	HERC6	2.337045112	1.80E-15
ENSG00000132274	TRIM22	1.28588343	1.95E-15
ENSG00000100220	RTCB	1.199853067	1.98E-15
ENSG00000188157	AGRN	2.05537899	2.86E-15
ENSG00000086065	CHMP5	1.371126076	5.01E-15
ENSG00000108771	DHX58	1.848937929	6.53E-15
ENSG00000163666	HESX1	3.695272206	6.61E-15
ENSG00000137628	DDX60	2.127830975	6.61E-15
ENSG00000157601	MX1	2.598859926	1.73E-14
ENSG00000160710	ADAR	0.977133921	2.02E-14
ENSG00000105726	ATP13A1	0.976478109	3.23E-14
ENSG00000173193	PARP14	1.576849779	3.99E-14
ENSG00000055332	EIF2AK2	1.601466148	6.89E-14
ENSG00000111912	NCOA7	1.360989368	7.47E-14
ENSG00000017483	SLC38A5	2.431681538	7.47E-14
ENSG00000172432	GTPBP2	0.890297882	8.81E-14
ENSG00000205413	SAMD9	2.142860258	9.27E-14
ENSG00000185745	IFIT1	4.09959233	1.09E-13
ENSG00000134326	CMPK2	2.888452244	1.40E-13
ENSG00000111335	OAS2	2.603698835	1.44E-13
ENSG00000130589	HELZ2	1.632039344	1.73E-13
ENSG00000164054	SHISA5	1.074129998	2.00E-13
ENSG00000160932	LY6E	1.955040544	3.81E-13
ENSG00000138385	SSB	0.93349414	3.88E-13

ENSG00000137198	GMPR	3.067849652	7.88E-13
ENSG00000068079	IFI35	1.613553029	1.41E-12
ENSG00000185201	IFITM2	1.26248619	2.89E-12
ENSG00000170581	STAT2	1.353047658	2.92E-12
ENSG00000118922	KLF12	-1.403238223	3.65E-12
ENSG00000111331	OAS3	2.585404184	6.99E-12
ENSG00000162614	NEXN	2.681249354	8.16E-12
ENSG00000154122	ANKH	-1.750924848	8.84E-12
ENSG00000105939	ZC3HAV1	0.950150676	1.11E-11
ENSG00000196116	TDRD7	1.251876971	1.20E-11
ENSG00000137959	IFI44L	3.167495964	1.32E-11
ENSG00000117010	ZNF684	1.305517008	1.37E-11
ENSG00000138496	PARP9	1.979935564	1.46E-11
ENSG00000100129	EIF3L	-0.808894816	1.60E-11
ENSG00000122643	NT5C3A	1.527976155	1.96E-11
ENSG00000162496	DHRS3	-7.188957132	2.02E-11
ENSG00000126709	IFI6	2.337677573	2.75E-11
ENSG00000076685	NT5C2	0.639429253	3.22E-11
ENSG00000137965	IFI44	2.419785274	3.35E-11
ENSG00000145287	PLAC8	1.458065947	4.91E-11
ENSG00000152102	FAM168B	-0.662531972	6.19E-11
ENSG00000119917	IFIT3	3.650993356	6.50E-11
ENSG00000146859	TMEM140	1.582845349	6.89E-11
ENSG00000185507	IRF7	1.716623152	7.29E-11
ENSG00000108700	CCL8	5.675703163	7.62E-11
ENSG00000108679	LGALS3BP	2.067284751	8.43E-11
ENSG00000133106	EPSTI1	2.031143247	9.29E-11
ENSG00000111344	RASAL1	-6.839063999	1.22E-10
ENSG00000163840	DTX3L	1.708226909	2.62E-10
ENSG00000188542	DUSP28	-0.714087951	2.62E-10
ENSG00000247317		2.306715849	2.85E-10
ENSG00000106603	COA1	0.850492432	3.15E-10
ENSG00000137414	FAM8A1	0.969940671	3.28E-10
ENSG00000102921	N4BP1	0.91262895	4.33E-10
ENSG00000130813	C19orf66	0.991247446	6.69E-10
ENSG00000132530	XAF1	2.318501921	9.68E-10
ENSG00000136147	PHF11	0.907090338	1.01E-09
ENSG00000163565	IFI16	1.503157981	1.02E-09
ENSG00000226950	DANCR	-1.353528168	1.36E-09
ENSG00000135899	SP110	1.265405777	1.37E-09
ENSG00000273314		1.60592131	1.39E-09
ENSG00000035720	STAP1	2.855107916	1.61E-09
ENSG00000105655	ISYNA1	-1.63253399	2.30E-09
ENSG00000168394	TAP1	1.113012556	2.48E-09
ENSG00000130595	TNNT3	-2.729036726	2.52E-09
ENSG00000131979	GCH1	0.985678555	2.66E-09
ENSG00000132109	TRIM21	1.466413305	2.80E-09
ENSG00000152766	ANKRD22	2.152048724	3.21E-09

ENSG00000204977	TRIM13	-1.089383113	3.93E-09
ENSG00000177409	SAMD9L	2.362901281	3.97E-09
ENSG00000168395	ING5	-0.888022519	6.13E-09
ENSG00000173786	CNP	1.218181809	6.45E-09
ENSG00000196684	HSH2D	1.342544902	6.51E-09
ENSG00000244242	IFITM10	-3.373797553	6.78E-09
ENSG00000173511	VEGFB	-2.291712704	6.87E-09
ENSG00000143153	ATP1B1	-1.982808024	7.41E-09
ENSG00000272666		2.340167326	7.95E-09
ENSG00000132256	TRIM5	1.7459755	8.59E-09
ENSG00000105875	WDR91	-0.747971626	9.11E-09
ENSG00000114554	PLXNA1	-1.546334268	9.98E-09
ENSG00000020577	SAMD4A	1.762586794	1.69E-08
ENSG00000011295	TTC19	-0.927237278	1.74E-08
ENSG00000002549	LAP3	1.358550585	1.77E-08
ENSG00000106785	TRIM14	1.384610627	2.06E-08
ENSG00000206190	ATP10A	1.571632761	2.10E-08
ENSG00000186918	ZNF395	-1.034639557	2.16E-08
ENSG00000120885	CLU	2.768088043	2.16E-08
ENSG00000136514	RTP4	2.01509088	2.26E-08
ENSG00000090621	PABPC4	-0.890861943	2.78E-08
ENSG00000118971	CCND2	-1.344484191	2.88E-08
ENSG00000115548	KDM3A	-1.014779224	2.98E-08
ENSG00000169116	PARM1	-3.366287644	3.15E-08
ENSG00000197381	ADARB1	1.035654568	3.36E-08
ENSG00000011028	MRC2	-5.213021828	3.50E-08
ENSG00000187109	NAP1L1	-0.673935184	3.87E-08
ENSG00000151012	SLC7A11	-4.836930734	4.24E-08
ENSG00000223960		1.301859947	4.28E-08
ENSG00000184205	TSPYL2	-2.231777018	4.52E-08
ENSG00000063046	EIF4B	-0.711048257	5.39E-08
ENSG00000167658	EEF2	-0.518344329	6.05E-08
ENSG00000152778	IFIT5	1.658173162	7.45E-08
ENSG00000160683	CXCR5	-3.467915731	9.19E-08
ENSG00000142303	ADAMTS10	-1.464790211	9.78E-08
ENSG00000181381	DDX60L	1.280730632	1.00E-07
ENSG00000249115	HAUS5	-0.672667761	1.03E-07
ENSG00000160223	ICOSLG	-2.039035137	1.08E-07
ENSG00000204252	HLA-DOA	-1.638926132	1.17E-07
ENSG00000225964	NRIR	2.436769194	1.19E-07
ENSG00000126351	THRA	-1.035777727	1.32E-07
ENSG00000106605	BLVRA	1.206214582	1.32E-07
ENSG00000168036	CTNNB1	-0.83374275	1.36E-07
ENSG00000183049	CAMK1D	-0.733665124	1.44E-07
ENSG00000138190	EXOC6	0.765153527	1.51E-07
ENSG00000186806	VSIG10L	1.262496147	1.60E-07
ENSG00000111224	PARP11	0.866476841	1.72E-07
ENSG00000135114	OASL	2.504420841	1.72E-07

ENSG00000136807	CDK9	-0.539151053	1.88E-07
ENSG00000274307		1.336375001	1.88E-07
ENSG00000173821	RNF213	1.004067082	2.07E-07
ENSG00000188042	ARL4C	-1.774995168	2.14E-07
ENSG00000114942	EEF1B2	-0.601299458	2.34E-07
ENSG00000173166	RAPH1	-1.95395738	2.63E-07
ENSG00000166889	PATL1	0.713042639	2.65E-07
ENSG00000122406	RPL5	-0.537680981	3.44E-07
ENSG00000142089	IFITM3	2.029849262	3.51E-07
ENSG00000177374	HIC1	-3.240136612	3.51E-07
ENSG00000169245	CXCL10	3.806084402	3.59E-07
ENSG00000196141	SPATS2L	2.014015163	3.90E-07
ENSG00000155252	PI4K2A	-1.562633789	4.07E-07
ENSG00000166016	ABTB2	2.093295717	4.48E-07
ENSG00000078043	PIAS2	-0.614212044	4.54E-07
ENSG00000104660	LEPROTL1	0.900080769	4.62E-07
ENSG00000099381	SETD1A	-0.666231938	4.67E-07
ENSG00000205837	LINC00487	3.087271877	4.93E-07
ENSG00000107554	DNMBP	-0.952033074	5.54E-07
ENSG00000277511		1.77450674	5.56E-07
ENSG00000137496	IL18BP	-1.040802477	5.67E-07
ENSG00000038210	PI4K2B	1.163066402	5.86E-07
ENSG00000213923	CSNK1E	-0.766043381	6.19E-07
ENSG00000141580	WDR45B	-0.558538853	6.34E-07
ENSG00000090975	PITPNM2	-1.130435881	6.35E-07
ENSG00000079263	SP140	1.246952671	6.36E-07
ENSG00000089127	OAS1	2.212336219	6.46E-07
ENSG00000237276	ANO7L1	1.779747225	6.51E-07
ENSG00000155363	MOV10	0.79261934	6.51E-07
ENSG00000105639	JAK3	0.821263537	6.59E-07
ENSG00000013619	MAMLD1	-4.085532493	6.96E-07
ENSG00000145016	RUBCN	0.595392711	7.12E-07
ENSG00000111907	TPD52L1	1.840165917	7.37E-07
ENSG00000156587	UBE2L6	1.215580969	7.71E-07
ENSG00000117226	GBP3	1.100639307	7.78E-07
ENSG00000174748	RPL15	-0.433326646	7.78E-07
ENSG00000150907	FOXO1	-0.79279773	7.78E-07
ENSG00000197111	PCBP2	-0.474091574	8.44E-07
ENSG00000072858	SIDT1	-1.108238212	8.66E-07
ENSG00000184441		-1.00444378	8.66E-07
ENSG00000007264	MATK	-2.898568619	8.87E-07
ENSG00000152061	RABGAP1L	0.880162684	9.09E-07
ENSG00000152484	USP12	-0.780864659	9.26E-07
ENSG00000137337	MDC1	-0.702141844	1.05E-06
ENSG00000089057	SLC23A2	-0.743401657	1.05E-06
ENSG00000153933	DGKE	-0.80495567	1.11E-06
ENSG00000163961	RNF168	-0.776970575	1.14E-06
ENSG00000099814	CEP170B	-2.880547134	1.18E-06

ENSG00000103264	FBXO31	-0.65283109	1.18E-06
ENSG00000198417	MT1F	1.419087813	1.35E-06
ENSG00000221963	APOL6	1.075556893	1.36E-06
ENSG00000108387	Sep-04	1.519492957	1.39E-06
ENSG00000188011	RTP5	-5.656952796	1.42E-06
ENSG00000101596	SMCHD1	0.715963375	1.65E-06
ENSG00000156650	KAT6B	-0.636735769	1.80E-06
ENSG00000111641	NOP2	-0.731968652	1.95E-06
ENSG00000140332	TLE3	-0.914136936	1.99E-06
ENSG00000137936	BCAR3	-2.532099701	2.01E-06
ENSG00000116863	ADPRHL2	0.892617688	2.07E-06
ENSG00000122224	LY9	-1.747438413	2.17E-06
ENSG00000117475	BLZF1	0.679762449	2.34E-06
ENSG00000136682	CBWD2	0.630063435	2.40E-06
ENSG00000135094	SDS	-2.9578259	2.74E-06
ENSG00000135622	SEMA4F	1.321107742	2.77E-06
ENSG00000116663	FBXO6	1.237564887	2.81E-06
ENSG00000149313	AASDHPPT	0.756579925	2.81E-06
ENSG00000115415	STAT1	1.426331566	3.14E-06
ENSG00000198087	CD2AP	0.867196522	3.45E-06
ENSG00000079616	KIF22	-0.656455595	3.46E-06
ENSG00000156983	BRPF1	-0.573671399	3.47E-06
ENSG00000152558	TMEM123	0.925174701	3.47E-06
ENSG00000182179	UBA7	0.612332345	4.01E-06
ENSG00000188315	C3orf62	-0.591170073	4.35E-06
ENSG00000171604	CXXC5	-1.490211538	4.50E-06
ENSG00000089157	RPLP0	-0.522383942	4.50E-06
ENSG00000070961	ATP2B1	-1.55794677	4.64E-06
ENSG00000185722	ANKFY1	0.640516461	4.64E-06
ENSG00000198604	BAZ1A	0.487198546	4.67E-06
ENSG00000117228	GBP1	1.713005252	4.87E-06
ENSG00000162407	PLPP3	-3.54686187	4.92E-06
ENSG00000062598	ELMO2	0.575344044	5.03E-06
ENSG00000178685	PARP10	1.188771447	5.16E-06
ENSG00000136877	FPGS	-0.904542002	5.28E-06
ENSG00000111371	SLC38A1	-1.052010974	5.88E-06
ENSG00000067066	SP100	0.654604751	6.07E-06
ENSG00000021355	SERPINB1	0.511822821	6.07E-06
ENSG00000089094	KDM2B	-0.504498644	6.11E-06
ENSG00000140280	LYSMD2	0.789711493	7.29E-06
ENSG00000170175	CHRN1	1.014278816	7.61E-06
ENSG00000165804	ZNF219	-1.496984008	7.76E-06
ENSG00000100814	CCNB1IP1	-0.575396059	7.76E-06
ENSG00000008083	JARID2	-1.103933263	7.95E-06
ENSG00000141385	AFG3L2	-0.447760418	7.95E-06
ENSG00000115155	OTOF	3.857485425	7.98E-06
ENSG00000239713	APOBEC3G	1.184218522	7.98E-06
ENSG00000123609	NMI	1.231034648	8.36E-06

ENSG00000228106		-1.183741944	8.42E-06
ENSG00000115159	GPD2	0.718650372	8.49E-06
ENSG00000185880	TRIM69	1.291070632	8.53E-06
ENSG00000167680	SEMA6B	-4.661726901	9.16E-06
ENSG00000065923	SLC9A7	-1.232417107	1.03E-05
ENSG00000160271	RALGDS	-1.038228728	1.04E-05
ENSG00000100600	LGMN	-2.040086501	1.05E-05
ENSG00000040199	PHLPP2	-0.699169146	1.09E-05
ENSG00000166527	CLEC4D	0.977116827	1.14E-05
ENSG00000087589	CASS4	-1.238973567	1.15E-05
ENSG00000084112	SSH1	-0.658357856	1.15E-05
ENSG00000167601	AXL	2.291470244	1.18E-05
ENSG00000168118	RAB4A	-0.420845252	1.21E-05
ENSG00000164687	FABP5	-2.260390179	1.22E-05
ENSG00000179840	PIK3CD-AS1	1.535622504	1.23E-05
ENSG00000168234	TTC39C	0.668293223	1.23E-05
ENSG00000196329	GIMAP5	1.743179476	1.24E-05
ENSG00000182378	PLCXD1	-1.31576293	1.24E-05
ENSG00000179361	ARID3B	-0.817864248	1.26E-05
ENSG00000179144	GIMAP7	1.923890158	1.31E-05
ENSG00000269951		-1.54628417	1.32E-05
ENSG00000213689	TREX1	1.028890952	1.42E-05
ENSG00000148516	ZEB1	-2.091137645	1.44E-05
ENSG00000167747	C19orf48	-0.810855845	1.46E-05
ENSG00000186480	INSIG1	-1.210473156	1.49E-05
ENSG00000176102	CSTF3	0.614702984	1.51E-05
ENSG00000171316	CHD7	-1.114085896	1.57E-05
ENSG00000167208	SNX20	0.62475524	1.62E-05
ENSG00000165943	MOAP1	-0.726591275	1.62E-05
ENSG00000163319	MRPS18C	0.779359451	1.62E-05
ENSG00000174738	NR1D2	-1.272606588	1.67E-05
ENSG00000169251	NMD3	-0.595299337	1.71E-05
ENSG00000172053	QARS	-0.354545675	1.80E-05
ENSG00000127586	CHTF18	-0.730284598	1.86E-05
ENSG00000179044	EXOC3L1	1.717437121	1.89E-05
ENSG00000186567	CEACAM19	-1.267100062	1.89E-05
ENSG00000183655	KLHL25	-1.382444036	1.90E-05
ENSG00000204519	ZNF551	-0.875989431	1.95E-05
ENSG00000107371	EXOSC3	0.895054014	2.00E-05
ENSG00000174444	RPL4	-0.440854929	2.00E-05
ENSG00000168062	BATF2	2.240757993	2.02E-05
ENSG00000197121	PGAP1	1.447110583	2.06E-05
ENSG00000181045	SLC26A11	-1.166545948	2.06E-05
ENSG00000141542	RAB40B	-1.022591809	2.09E-05
ENSG00000106991	ENG	-1.122279696	2.15E-05
ENSG00000106089	STX1A	-2.870610165	2.24E-05
ENSG00000169100	SLC25A6	-0.436436931	2.25E-05
ENSG00000149131	SERPING1	2.288858944	2.25E-05

ENSG00000103942	HOMER2	-1.27813326	2.62E-05
ENSG00000136874	STX17	0.613744675	2.79E-05
ENSG00000170989	S1PR1	-1.784781687	2.81E-05
ENSG00000011566	MAP4K3	-1.132576152	2.84E-05
ENSG00000244968	LIFR-AS1	1.57107458	3.14E-05
ENSG00000197771	MCMBP	0.796348939	3.16E-05
ENSG00000172345	STARD5	-1.389809437	3.16E-05
ENSG00000142687	KIAA0319L	0.626951341	3.28E-05
ENSG00000163376	KBTBD8	-1.344776184	3.28E-05
ENSG00000090971	NAT14	-0.900750389	3.35E-05
ENSG00000141577	CEP131	-0.630148552	3.46E-05
ENSG00000100316	RPL3	-0.458586504	3.49E-05
ENSG00000013374	NUB1	0.718228941	3.51E-05
ENSG00000250575		-1.025266105	3.54E-05
ENSG00000187912	CLEC17A	-1.71599741	3.54E-05
ENSG00000174238	PITPNA	-0.629925673	3.58E-05
ENSG00000278948		-0.807242396	3.78E-05
ENSG00000081913	PHLPP1	-0.784347179	3.81E-05
ENSG00000115594	IL1R1	-2.656777092	3.86E-05
ENSG00000229677		1.466942666	3.87E-05
ENSG00000176903	PNMA1	-0.856810624	4.04E-05
ENSG00000047634	SCML1	-1.254746261	4.11E-05
ENSG00000136960	ENPP2	1.823721083	4.19E-05
ENSG00000263528	IKBKE	0.760962027	4.19E-05
ENSG00000041357	PSMA4	0.626588215	4.21E-05
ENSG00000168310	IRF2	0.893810835	4.22E-05
ENSG00000137094	DNAJB5	-1.441911986	4.27E-05
ENSG00000075275	CELSR1	-2.480099685	4.27E-05
ENSG00000181873	IBA57	-1.112273742	4.34E-05
ENSG00000133657	ATP13A3	-1.151906378	4.34E-05
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