

Supp Table 1 DD vs DDC comparison

ENSG	baseMean	log2FoldC	lfcSE	stat	pvalue	padj	symbol	entrez	genename
ENSG0000	1445.535	7.527035	0.527443	14.2708	3.33E-46	6.80E-42	SCRG1	11341	stimulator of chondrogenesis 1
ENSG0000	30165.09	7.060163	0.529774	13.32674	1.62E-40	1.65E-36	CHI3L1	1116	chitinase 3 like 1
ENSG0000	329.011	4.880292	0.380099	12.83953	9.85E-38	6.71E-34	ITGB2	3689	integrin subunit beta 2
ENSG0000	146899.2	1.678717	0.138994	12.07762	1.39E-33	7.08E-30	COL12A1	1303	collagen type XII alpha 1 chain
ENSG0000	237.9376	2.653065	0.221998	11.95086	6.43E-33	2.63E-29	NA	NA	NA
ENSG0000	315.4139	-8.80776	0.776658	-11.3406	8.26E-30	2.81E-26	CHRM2	1129	cholinergic receptor muscarinic 2
ENSG0000	940.4362	4.495589	0.40742	11.03429	2.61E-28	7.62E-25	DAPK1	1612	death associated protein kinase 1
ENSG0000	45420.22	2.560806	0.235585	10.86999	1.60E-27	4.09E-24	ITGA11	22801	integrin subunit alpha 11
ENSG0000	1111.258	3.482956	0.32315	10.77814	4.37E-27	9.91E-24	MEDAG	84935	mesenteric estrogen dependent adipogenesis
ENSG0000	409.9789	8.270147	0.776764	10.64693	1.80E-26	3.68E-23	KRT16	3868	keratin 16
ENSG0000	2295.721	-2.91763	0.274444	-10.6311	2.14E-26	3.94E-23	NES	10763	nestin
ENSG0000	202.962	-7.71313	0.726035	-10.6236	2.31E-26	3.94E-23	IRX2	153572	iroquois homeobox 2
ENSG0000	107937.4	3.397741	0.320114	10.61416	2.56E-26	4.02E-23	CEMIP	57214	cell migration inducing hyaluronidase 1
ENSG0000	112.4467	-7.06601	0.670978	-10.5309	6.22E-26	9.08E-23	NA	NA	NA
ENSG0000	1125.164	7.932971	0.75491	10.50849	7.89E-26	1.08E-22	CSF2RB	1439	colony stimulating factor 2 receptor subunit beta
ENSG0000	172.8414	5.137919	0.493279	10.41586	2.10E-25	2.68E-22	CHRDL1	91851	chordin like 1
ENSG0000	13183.96	2.505823	0.241496	10.37626	3.18E-25	3.82E-22	MFAP5	8076	microfibril associated protein 5
ENSG0000	328.1161	-9.04362	0.872142	-10.3694	3.42E-25	3.88E-22	LHX8	431707	LIM homeobox 8
ENSG0000	13704.49	5.124799	0.496341	10.32515	5.42E-25	5.83E-22	ABI3BP	25890	ABI family member 3 binding protein
ENSG0000	2505.719	4.274287	0.430347	9.93219	3.02E-23	3.08E-20	CILP2	148113	cartilage intermediate layer protein 2
ENSG0000	524.8223	7.181062	0.736171	9.754611	1.76E-22	1.64E-19	PRG4	10216	proteoglycan 4
ENSG0000	543.3207	5.631632	0.584584	9.633569	5.77E-22	5.12E-19	PNMA2	10687	PNMA family member 2
ENSG0000	241.7267	2.972251	0.316612	9.387674	6.13E-21	5.22E-18	CGREF1	10669	cell growth regulator with EF-hand domain 1
ENSG0000	475.4362	2.348225	0.252826	9.287925	1.57E-20	1.29E-17	CSGALNAC	55790	chondroitin sulfate N-acetylgalactosaminyltransferase 1
ENSG0000	448.6361	6.431914	0.698437	9.209005	3.29E-20	2.59E-17	MEOX2	4223	mesenchyme homeobox 2
ENSG0000	4428.194	-4.96976	0.541405	-9.17937	4.34E-20	3.28E-17	MMP1	4312	matrix metalloproteinase 1
ENSG0000	911.8341	2.231888	0.243611	9.161669	5.11E-20	3.73E-17	JAG1	182	jagged canonical Notch ligand 1
ENSG0000	218.2144	-7.94676	0.867985	-9.15541	5.42E-20	3.81E-17	SPHKAP	80309	SPHK1 interactor, AKAP domain containing
ENSG0000	1099.783	5.057988	0.561707	9.004675	2.16E-19	1.47E-16	PAPPA2	60676	pappalysin 2
ENSG0000	5360.999	4.775755	0.530903	8.995539	2.35E-19	1.55E-16	VCAM1	7412	vascular cell adhesion molecule 1
ENSG0000	529.9509	2.15476	0.241353	8.927823	4.34E-19	2.77E-16	NA	NA	NA
ENSG0000	120.0513	-10.0693	1.131351	-8.90028	5.57E-19	3.45E-16	SHOX	6473	short stature homeobox
ENSG0000	2243.905	-6.39659	0.726202	-8.80828	1.27E-18	7.64E-16	SFRP1	6422	secreted frizzled related protein 1
ENSG0000	128.7655	-4.17071	0.486586	-8.57138	1.02E-17	5.97E-15	CES1	1066	carboxylesterase 1
ENSG0000	2228.168	-1.69864	0.198357	-8.56357	1.09E-17	6.21E-15	SCD	6319	stearoyl-CoA desaturase
ENSG0000	329.7563	5.667848	0.666194	8.507798	1.77E-17	9.53E-15	SCN3A	6328	sodium voltage-gated channel alpha subunit 3
ENSG0000	251.7749	4.292915	0.510053	8.416607	3.88E-17	1.98E-14	SIX2	10736	SIX homeobox 2
ENSG0000	292.9428	-1.72861	0.205737	-8.40201	4.39E-17	2.19E-14	CNIH3	149111	cornichon family AMPA receptor auxiliary protein 3
ENSG0000	391.6661	4.461005	0.533867	8.356022	6.49E-17	3.16E-14	PLXDC2	84898	plexin domain containing 2
ENSG0000	1734.51	4.227235	0.50697	8.338228	7.54E-17	3.58E-14	PDE1C	5137	phosphodiesterase 1C
ENSG0000	107.7029	4.014682	0.488419	8.219742	2.04E-16	9.06E-14	PPM1H	57460	protein phosphatase, Mg2+/Mn2+ dependent 1H
ENSG0000	970.2533	6.248413	0.763943	8.179163	2.86E-16	1.24E-13	SORBS2	8470	sorbin and SH3 domain containing 2
ENSG0000	332.147	8.507426	1.042724	8.158849	3.38E-16	1.44E-13	EPGN	255324	epithelial mitogen
ENSG0000	254.5113	-3.68856	0.45621	-8.08522	6.21E-16	2.59E-13	RNF112	7732	ring finger protein 112
ENSG0000	40816.3	2.596123	0.322439	8.051504	8.18E-16	3.34E-13	PTX3	5806	pentraxin 3
ENSG0000	410.6385	1.689942	0.211433	7.992804	1.32E-15	5.28E-13	PTK2B	2185	protein tyrosine kinase 2 beta
ENSG0000	202.7744	3.981305	0.498796	7.981826	1.44E-15	5.66E-13	NA	NA	NA
ENSG0000	35323.77	4.245916	0.532984	7.966316	1.63E-15	6.30E-13	EFEMP1	2202	EGF containing fibulin extracellular matrix protein 1
ENSG0000	30558.26	1.613225	0.203607	7.923228	2.31E-15	8.76E-13	MFGE8	4240	milk fat globule EGF and factor V/VIII domain containing
ENSG0000	251.0476	3.000053	0.379657	7.902018	2.74E-15	1.02E-12	ANKRD6	22881	ankyrin repeat domain 6
ENSG0000	5880.101	2.058177	0.262184	7.85011	4.16E-15	1.52E-12	MEGF6	1953	multiple EGF like domains 6
ENSG0000	147.398	2.932299	0.376369	7.791022	6.65E-15	2.38E-12	HAS3	3038	hyaluronan synthase 3
ENSG0000	3576.68	-5.95101	0.76767	-7.75204	9.04E-15	3.19E-12	FBN2	2201	fibrillin 2
ENSG0000	372.0362	2.229155	0.288623	7.723427	1.13E-14	3.92E-12	CARD10	29775	caspase recruitment domain family member 10
ENSG0000	218.5395	-2.27844	0.295447	-7.71185	1.24E-14	4.22E-12	RNF152	220441	ring finger protein 152
ENSG0000	99.2046	-2.96535	0.388848	-7.62597	2.42E-14	7.98E-12	TRABD2A	129293	TraB domain containing 2A
ENSG0000	1471.349	1.825311	0.239657	7.616342	2.61E-14	8.46E-12	ADAMTS7	11173	ADAM metalloproteinase with thrombospondin type 1 motif 7
ENSG0000	637.7454	-1.51773	0.199393	-7.61172	2.70E-14	8.63E-12	HS3ST3A1	9955	heparan sulfate-glucosamine 3-sulfotransferase 3A1
ENSG0000	2448.528	-2.55743	0.336399	-7.60237	2.91E-14	9.14E-12	COL7A1	1294	collagen type VII alpha 1 chain
ENSG0000	776.0383	1.827134	0.241055	7.579731	3.46E-14	1.07E-11	FZD4	8322	frizzled class receptor 4
ENSG0000	412.1192	2.120792	0.282339	7.511518	5.84E-14	1.76E-11	DCLK1	9201	doublecortin like kinase 1
ENSG0000	15293.91	2.116071	0.283098	7.474702	7.74E-14	2.29E-11	IGFBP5	3488	insulin like growth factor binding protein 5
ENSG0000	57.10524	-5.80131	0.780605	-7.43182	1.07E-13	3.13E-11	COL23A1	91522	collagen type XXIII alpha 1 chain
ENSG0000	7247.117	2.431929	0.327976	7.41495	1.22E-13	3.50E-11	CYP1B1	1545	cytochrome P450 family 1 subfamily B member 1
ENSG0000	95.04179	-4.34854	0.58803	-7.3951	1.41E-13	4.01E-11	FLRT3	23767	fibronectin leucine rich transmembrane protein 3
ENSG0000	154.8379	4.101987	0.55528	7.387247	1.50E-13	4.19E-11	CACNB4	785	calcium voltage-gated channel auxiliary subunit beta 4
ENSG0000	42.26215	5.813064	0.796783	7.295672	2.97E-13	8.14E-11	PKNOX2	63876	PBX/knotted 1 homeobox 2
ENSG0000	143.2805	1.666585	0.228458	7.294929	2.99E-13	8.14E-11	ADAMTS7	400406	ADAMTS7 pseudogene 3
ENSG0000	212.8903	3.406992	0.467811	7.28284	3.27E-13	8.79E-11	CSTA	1475	cystatin A
ENSG0000	1081.757	2.104898	0.290045	7.257132	3.95E-13	1.05E-10	CCPG1	9236	cell cycle progression 1
ENSG0000	916.0438	-2.68217	0.370334	-7.24257	4.40E-13	1.15E-10	SLC9A3R2	9351	SLC9A3 regulator 2
ENSG0000	613.3747	4.465192	0.616919	7.237887	4.56E-13	1.18E-10	SRGN	5552	serglycin
ENSG0000	61.99605	3.04116	0.421401	7.216787	5.32E-13	1.36E-10	CYP1B1-AS	285154	CYP1B1 antisense RNA 1
ENSG0000	52.18038	-8.15146	1.13466	-7.18406	6.77E-13	1.71E-10	NA	NA	NA
ENSG0000	1318.327	2.571951	0.358751	7.169188	7.54E-13	1.88E-10	HAPLN3	145864	hyaluronan and proteoglycan link protein 3
ENSG0000	421.2785	4.27063	0.602808	7.084561	1.39E-12	3.43E-10	NTRK2	4915	neurotrophic receptor tyrosine kinase 2

ENSG0000	127.4728	6.736148	0.952468	7.072306	1.52E-12	3.71E-10	EYA4	2070	EYA transcriptional coactivator and phosphatase 4
ENSG0000	65.06579	-2.79659	0.395638	-7.06856	1.57E-12	3.76E-10	FERMT3	83706	FERM domain containing kindlin 3
ENSG0000	163.3783	2.918004	0.415328	7.025775	2.13E-12	5.02E-10	ZNF704	619279	zinc finger protein 704
ENSG0000	441.8176	4.122703	0.586843	7.025221	2.14E-12	5.02E-10	TPD52L1	7164	TPD52 like 1
ENSG0000	933.3015	-3.11406	0.443867	-7.01574	2.29E-12	5.31E-10	CHN1	1123	chimerin 1
ENSG0000	181.0131	6.849562	0.978066	7.00317	2.50E-12	5.74E-10	EPHA5	2044	EPH receptor A5
ENSG0000	928.0519	-4.18191	0.603386	-6.93074	4.19E-12	9.50E-10	PTN	5764	pleiotrophin
ENSG0000	29.03387	-4.13981	0.601042	-6.88772	5.67E-12	1.27E-09	RIMS2	9699	regulating synaptic membrane exocytosis 2
ENSG0000	660.9701	4.328983	0.628731	6.885268	5.77E-12	1.28E-09	DEPTOR	64798	DEP domain containing MTOR interacting protein
ENSG0000	187.9547	1.60085	0.234747	6.819471	9.14E-12	1.99E-09	LINC01547	84536	long intergenic non-protein coding RNA 1547
ENSG0000	42.83207	-3.72522	0.548456	-6.79219	1.10E-11	2.37E-09	CARD16	114769	caspase recruitment domain family member 16
ENSG0000	3319.275	-3.47838	0.514104	-6.7659	1.32E-11	2.82E-09	TBX3	6926	T-box transcription factor 3
ENSG0000	41.14699	-4.39775	0.651672	-6.7484	1.49E-11	3.15E-09	TRIM55	84675	tripartite motif containing 55
ENSG0000	7271.508	2.679351	0.397402	6.742162	1.56E-11	3.25E-09	IGFBP7	3490	insulin like growth factor binding protein 7
ENSG0000	25776.1	1.725021	0.257955	6.687282	2.27E-11	4.69E-09	TXNRD1	7296	thioredoxin reductase 1
ENSG0000	52.20727	-5.411	0.809477	-6.68457	2.32E-11	4.73E-09	CES1P1	51716	carboxylesterase 1 pseudogene 1
ENSG0000	332.0405	3.476621	0.520615	6.677918	2.42E-11	4.90E-09	SAMD12	401474	sterile alpha motif domain containing 12
ENSG0000	6245.306	1.736451	0.26027	6.671717	2.53E-11	5.06E-09	C1orf198	84886	chromosome 1 open reading frame 198
ENSG0000	1041.364	8.379112	1.268201	6.607084	3.92E-11	7.76E-09	KRT14	3861	keratin 14
ENSG0000	1256.825	3.332784	0.504519	6.605859	3.95E-11	7.76E-09	MAF	4094	MAF bZIP transcription factor
ENSG0000	41.1757	8.027776	1.220513	6.57738	4.79E-11	9.32E-09	IL26	55801	interleukin 26
ENSG0000	1080.699	1.700739	0.259303	6.558894	5.42E-11	1.04E-08	ADM2	79924	adrenomedullin 2
ENSG0000	73.02492	3.169573	0.484766	6.538357	6.22E-11	1.19E-08	HTR2A	3356	5-hydroxytryptamine receptor 2A
ENSG0000	593.969	-2.03176	0.310807	-6.53705	6.27E-11	1.19E-08	SKAP2	8935	src kinase associated phosphoprotein 2
ENSG0000	272.7314	-2.83737	0.434905	-6.52412	6.84E-11	1.28E-08	PRKAR2B	5577	protein kinase cAMP-dependent type II regulatory sub unit beta
ENSG0000	145.8785	-2.86107	0.440084	-6.50119	7.97E-11	1.48E-08	SEMA6D	80031	semaphorin 6D
ENSG0000	873.9143	-3.56973	0.549445	-6.49696	8.20E-11	1.51E-08	TNFRSF21	27242	TNF receptor superfamily member 21
ENSG0000	10160.56	2.215229	0.342544	6.466986	1.00E-10	1.82E-08	CDH13	1012	cadherin 13
ENSG0000	1974.601	-8.32407	1.291773	-6.44391	1.16E-10	2.09E-08	APCDD1	147495	APC down-regulated 1
ENSG0000	66.09372	-5.93499	0.921385	-6.44138	1.18E-10	2.10E-08	GAL	51083	galanin and GMAP prepropeptide
ENSG0000	424.1536	2.544207	0.395246	6.437024	1.22E-10	2.15E-08	LINC01133	1.01E+08	long intergenic non-protein coding RNA 1133
ENSG0000	58.6884	5.559077	0.86499	6.426754	1.30E-10	2.28E-08	KRT31	3881	keratin 31
ENSG0000	273.6245	3.376971	0.526741	6.411065	1.45E-10	2.50E-08	DMD	1756	dystrophin
ENSG0000	1152.495	-2.15135	0.335791	-6.4068	1.49E-10	2.55E-08	TBX5-AS1	255480	TBX5 antisense RNA 1
ENSG0000	35.49623	-3.30352	0.518775	-6.36793	1.92E-10	3.26E-08	LTK	4058	leukocyte receptor tyrosine kinase
ENSG0000	801.6303	2.856495	0.451641	6.324698	2.54E-10	4.21E-08	DEPP1	11067	DEPP1 autophagy regulator
ENSG0000	39.26634	7.307678	1.157831	6.311522	2.76E-10	4.55E-08	PART1	25859	prostate androgen-regulated transcript 1
ENSG0000	170.0363	4.560258	0.723847	6.300028	2.98E-10	4.82E-08	STEAP4	79689	STEAP4 metalloredutase
ENSG0000	790.125	-2.85002	0.455085	-6.26261	3.79E-10	6.06E-08	GALNT6	11226	polypeptide N-acetylgalactosaminyltransferase 6
ENSG0000	39.36002	3.834232	0.612288	6.262141	3.80E-10	6.06E-08	CDH1	999	cadherin 1
ENSG0000	36.69955	4.887848	0.783276	6.240265	4.37E-10	6.92E-08	NA	NA	NA
ENSG0000	2152.671	1.954225	0.31389	6.22583	4.79E-10	7.53E-08	COL11A1	1301	collagen type XI alpha 1 chain
ENSG0000	307.1557	4.11362	0.661069	6.222676	4.89E-10	7.62E-08	H19	283120	H19 imprinted maternally expressed transcript
ENSG0000	277.7374	-3.4415	0.553475	-6.21799	5.04E-10	7.79E-08	DIRAS3	9077	DIRAS family GTPase 3
ENSG0000	33.72545	-7.57511	1.220713	-6.20548	5.45E-10	8.38E-08	NA	NA	NA
ENSG0000	85.41302	-8.20448	1.323459	-6.19927	5.67E-10	8.65E-08	IRX1	79192	iroquois homeobox 1
ENSG0000	57.598	-6.5998	1.065747	-6.19265	5.92E-10	8.95E-08	SOX11	6664	SRY-box transcription factor 11
ENSG0000	38.61588	4.405136	0.712412	6.183409	6.27E-10	9.42E-08	GPR88	54112	G protein-coupled receptor 88
ENSG0000	604.1987	5.591058	0.904585	6.180797	6.38E-10	9.51E-08	CCKAR	886	cholecystokinin A receptor
ENSG0000	59.64424	-3.72909	0.604819	-6.16564	7.02E-10	1.04E-07	HOXA5	3202	homeobox A5
ENSG0000	177.8521	3.19618	0.524481	6.09399	1.10E-09	1.61E-07	NALCN	259232	sodium leak channel, non-selective
ENSG0000	96.87807	4.744715	0.780386	6.079956	1.20E-09	1.74E-07	SCARA5	286133	scavenger receptor class A member 5
ENSG0000	327.9095	-1.78535	0.293988	-6.07285	1.26E-09	1.81E-07	STXBP6	29091	syntaxin binding protein 6
ENSG0000	128.2124	5.258488	0.869067	6.050731	1.44E-09	2.06E-07	SLC16A9	220963	solute carrier family 16 member 9
ENSG0000	56.92481	6.713645	1.110212	6.047171	1.47E-09	2.09E-07	KRT16P3	644945	keratin 16 pseudogene 3
ENSG0000	161.884	2.543268	0.421799	6.029574	1.64E-09	2.28E-07	CYP19A1	1588	cytochrome P450 family 19 subfamily A member 1
ENSG0000	191.9901	4.094366	0.679389	6.026545	1.68E-09	2.31E-07	KCTD16	57528	potassium channel tetramerization domain containing 16
ENSG0000	72.03205	-7.33273	1.217059	-6.02496	1.69E-09	2.32E-07	NA	NA	NA
ENSG0000	2215.245	3.77613	0.627197	6.020642	1.74E-09	2.37E-07	NTN4	59277	netrin 4
ENSG0000	3843.9	8.636338	1.441841	5.989799	2.10E-09	2.82E-07	SFRP4	6424	secreted frizzled related protein 4
ENSG0000	222.0382	-1.87193	0.312583	-5.98858	2.12E-09	2.82E-07	MBNL3	55796	muscleblind like splicing regulator 3
ENSG0000	31.73182	3.433544	0.573415	5.987893	2.13E-09	2.82E-07	TP63	8626	tumor protein p63
ENSG0000	112.0544	5.986293	1.000081	5.98581	2.15E-09	2.84E-07	KRT33B	3884	keratin 33B
ENSG0000	304.2949	-5.34262	0.892761	-5.98438	2.17E-09	2.84E-07	TRMT9B	57604	tRNA methyltransferase 9B (putative)
ENSG0000	165.4752	1.663684	0.278104	5.98223	2.20E-09	2.86E-07	GSAP	54103	gamma-secretase activating protein
ENSG0000	36.67157	3.088749	0.516465	5.980554	2.22E-09	2.86E-07	LINC02015	1.03E+08	long intergenic non-protein coding RNA 2015
ENSG0000	94.32653	2.058512	0.344207	5.98045	2.23E-09	2.86E-07	LGALS1	29094	galectin like
ENSG0000	50.97731	6.202453	1.037499	5.978271	2.26E-09	2.88E-07	CHRD12	25884	chordin like 2
ENSG0000	23.40712	6.844448	1.149223	5.955718	2.59E-09	3.27E-07	NA	NA	NA
ENSG0000	84.73215	6.969881	1.170844	5.952868	2.63E-09	3.30E-07	CDH18	1016	cadherin 18
ENSG0000	21210.38	1.83594	0.308951	5.942492	2.81E-09	3.50E-07	ADAMTS1	9510	ADAM metalloproteinase with thrombospondin type 1 motif 1
ENSG0000	19.44536	-4.0583	0.686763	-5.90932	3.44E-09	4.23E-07	NA	NA	NA
ENSG0000	1441.356	2.832187	0.480915	5.889161	3.88E-09	4.73E-07	FNDC1	84624	fibronectin type III domain containing 1
ENSG0000	39.64837	3.92049	0.665759	5.888751	3.89E-09	4.73E-07	NA	NA	NA
ENSG0000	1891.802	2.915523	0.495962	5.878522	4.14E-09	5.00E-07	GFRA1	2674	GDNF family receptor alpha 1
ENSG0000	136.0545	2.716025	0.462339	5.874531	4.24E-09	5.07E-07	SLC2A5	6518	solute carrier family 2 member 5
ENSG0000	30.48444	-5.35075	0.914884	-5.84856	4.96E-09	5.89E-07	NA	NA	NA

ENSG0000	76.70697	6.033985	1.033843	5.836464	5.33E-09	6.30E-07	LINC01018	255167	long intergenic non-protein coding RNA 1018
ENSG0000	21.52505	-5.29856	0.909122	-5.82821	5.60E-09	6.58E-07	P2RY1	5028	purinergic receptor P2Y1
ENSG0000	23.67829	4.232144	0.728993	5.80547	6.42E-09	7.45E-07	LINC01750	643355	long intergenic non-protein coding RNA 1750
ENSG0000	74.72837	5.809238	1.000969	5.803617	6.49E-09	7.49E-07	HRH2	3274	histamine receptor H2
ENSG0000	81.27146	1.64718	0.284184	5.796176	6.78E-09	7.79E-07	ZFH4-AS1	1E+08	ZFH4 antisense RNA 1
ENSG0000	111.8538	3.267732	0.564669	5.786987	7.17E-09	8.09E-07	CCND2	894	cyclin D2
ENSG0000	1695.706	1.699391	0.2939	5.782204	7.37E-09	8.28E-07	ARL4C	10123	ADP ribosylation factor like GTPase 4C
ENSG0000	304.8865	2.267932	0.393704	5.760506	8.39E-09	9.36E-07	FUCA1	2517	alpha-L-fucosidase 1
ENSG0000	150.8549	3.178299	0.552601	5.751531	8.84E-09	9.82E-07	PCSK1	5122	proprotein convertase subtilisin/kexin type 1
ENSG0000	102.9551	-5.81356	1.013757	-5.73467	9.77E-09	1.07E-06	ANO4	121601	anoctamin 4
ENSG0000	60.32538	4.159232	0.725916	5.729632	1.01E-08	1.09E-06	KLHDC7B	113730	kelch domain containing 7B
ENSG0000	29.73085	4.011383	0.700457	5.726808	1.02E-08	1.11E-06	IGF1	3479	insulin like growth factor 1
ENSG0000	17155.13	1.524845	0.267212	5.706498	1.15E-08	1.24E-06	GJA1	2697	gap junction protein alpha 1
ENSG0000	31.80065	4.103646	0.720936	5.69211	1.25E-08	1.34E-06	CCDC110	256309	coiled-coil domain containing 110
ENSG0000	250.866	-2.94038	0.516937	-5.68809	1.28E-08	1.37E-06	TOX2	84969	TOX high mobility group box family member 2
ENSG0000	140.5113	2.422745	0.426056	5.686444	1.30E-08	1.37E-06	HMG2-AS1	1E+08	HMG2 antisense RNA 1
ENSG0000	390.8244	-3.76617	0.663618	-5.67521	1.39E-08	1.44E-06	CASP1	834	caspase 1
ENSG0000	47.14542	2.116269	0.373065	5.672656	1.41E-08	1.46E-06	ADAMTS7	390660	ADAMTS7 pseudogene 1
ENSG0000	57.29886	4.757984	0.8393	5.66899	1.44E-08	1.47E-06	PADI2	11240	peptidyl arginine deiminase 2
ENSG0000	179.5165	3.525234	0.622214	5.665631	1.46E-08	1.50E-06	NA	NA	NA
ENSG0000	291.2887	2.585143	0.457076	5.655823	1.55E-08	1.57E-06	ASPHD2	57168	aspartate beta-hydroxylase domain containing 2
ENSG0000	46.7031	-4.05582	0.71747	-5.65295	1.58E-08	1.59E-06	APBA2	321	amyloid beta precursor protein binding family A member 2
ENSG0000	70.09104	3.120444	0.552852	5.644269	1.66E-08	1.66E-06	KRTAP1-1	81851	keratin associated protein 1-1
ENSG0000	26.35013	-4.03713	0.717489	-5.62674	1.84E-08	1.82E-06	ST8SIA5	29906	ST8 alpha-N-acetylneuraminidase alpha-2,8-sialyltransferase 5
ENSG0000	3294.453	2.110241	0.375997	5.612383	2.00E-08	1.97E-06	GRAMD2B	65983	GRAM domain containing 2B
ENSG0000	869.8808	-2.39121	0.427285	-5.59629	2.19E-08	2.15E-06	GNG2	54331	G protein subunit gamma 2
ENSG0000	43.69225	3.677452	0.657618	5.592081	2.24E-08	2.18E-06	GALNT13	114805	polypeptide N-acetylgalactosaminyltransferase 13
ENSG0000	116.7767	1.549452	0.277638	5.580831	2.39E-08	2.32E-06	RFLNA	144347	refilin A
ENSG0000	79.52821	2.601715	0.466309	5.579374	2.41E-08	2.33E-06	VLDLR-AS1	401491	VLDLR antisense RNA 1
ENSG0000	898.338	1.646423	0.295195	5.577416	2.44E-08	2.34E-06	COBL1	22837	cordon-bleu WH2 repeat protein like 1
ENSG0000	368.8601	3.246669	0.582535	5.573343	2.50E-08	2.39E-06	GATA6	2627	GATA binding protein 6
ENSG0000	39.42904	-4.90894	0.8813	-5.57011	2.55E-08	2.42E-06	HOXA1	3198	homeobox A1
ENSG0000	62.39832	-3.84566	0.69335	-5.5465	2.91E-08	2.74E-06	WNT7B	7477	Wnt family member 7B
ENSG0000	27.00907	4.223776	0.76167	5.545413	2.93E-08	2.75E-06	APOA1	335	apolipoprotein A1
ENSG0000	664.2147	2.679144	0.483915	5.5364	3.09E-08	2.88E-06	GDF5	8200	growth differentiation factor 5
ENSG0000	50.98487	5.890146	1.06466	5.532419	3.16E-08	2.93E-06	TMEM178	1.01E+08	transmembrane protein 178B
ENSG0000	2156.026	2.47648	0.448355	5.523484	3.32E-08	3.07E-06	LACC1	144811	laccase domain containing 1
ENSG0000	319.7704	2.089107	0.378679	5.516826	3.45E-08	3.16E-06	NHSL1	57224	NHS like 1
ENSG0000	1388.445	-1.70441	0.308975	-5.51633	3.46E-08	3.16E-06	GNG11	2791	G protein subunit gamma 11
ENSG0000	1839.989	3.561075	0.649254	5.484876	4.14E-08	3.73E-06	MEST	4232	mesoderm specific transcript
ENSG0000	448.0038	2.06584	0.378145	5.463091	4.68E-08	4.17E-06	NA	NA	NA
ENSG0000	8364.688	8.644128	1.585059	5.453505	4.94E-08	4.39E-06	ACAN	176	aggrecan
ENSG0000	18012.64	-3.88667	0.714611	-5.43886	5.36E-08	4.74E-06	MXRA5	25878	matrix remodeling associated 5
ENSG0000	264.9256	-8.69776	1.602947	-5.4261	5.76E-08	5.03E-06	GRIK2	2898	glutamate ionotropic receptor kainate type subunit 2
ENSG0000	160.828	-4.53594	0.837032	-5.41907	5.99E-08	5.21E-06	COL6A6	131873	collagen type VI alpha 6 chain
ENSG0000	184.5698	-5.25206	0.972234	-5.40205	6.59E-08	5.67E-06	MAP2K6	5608	mitogen-activated protein kinase kinase 6

Supp Table 2 DDC vs NS comparison

ENSG	baseMean	log2FoldC	lfcSE	stat	pvalue	padj	symbol	entrez	genename
ENSG0000	1751.458	-3.99209	0.182657	-21.8557	6.86E-106	1.80E-101	JAM2	58494	junctional adhesion molecule 2
ENSG0000	8139.154	-2.95224	0.178747	-16.5163	2.80E-61	3.68E-57	JUND	3727	JunD proto-oncogene, AP-1 transcription factor subunit
ENSG0000	4536.474	-3.8835	0.237745	-16.3347	5.59E-60	4.89E-56	CSRP1	64651	cysteine and serine rich nuclear protein 1
ENSG0000	391.7914	-4.68084	0.288902	-16.2021	4.87E-59	3.20E-55	TNFSF9	8744	TNF superfamily member 9
ENSG0000	13622.91	-4.41895	0.29259	-15.1029	1.55E-51	8.14E-48	GADD45B	4616	growth arrest and DNA damage inducible beta
ENSG0000	424.3872	2.005845	0.133761	14.99568	7.84E-51	3.43E-47	MRTFB	57496	myocardin related transcription factor B
ENSG0000	393.3528	-5.98573	0.399742	-14.974	1.09E-50	4.08E-47	HES4	57801	hes family bHLH transcription factor 4
ENSG0000	13590.97	-5.35951	0.369699	-14.497	1.27E-47	3.70E-44	BHLHE40	8553	basic helix-loop-helix family member e40
ENSG0000	4325.254	-3.94389	0.277538	-14.2103	7.91E-46	2.08E-42	PER1	5187	period circadian regulator 1
ENSG0000	100532.5	-2.10177	0.148745	-14.13	2.48E-45	5.92E-42	ND2	4536	NADH dehydrogenase subunit 2
ENSG0000	2633.898	-3.08842	0.221583	-13.938	3.72E-44	8.15E-41	NA	NA	NA
ENSG0000	922.621	-4.51819	0.324937	-13.9048	5.92E-44	1.20E-40	DAPK1	1612	death associated protein kinase 1
ENSG0000	7550.216	-2.63214	0.196139	-13.4198	4.63E-41	8.69E-38	MIDN	90007	midnolin
ENSG0000	6378.852	-4.49823	0.342968	-13.1156	2.68E-39	4.14E-36	HES1	3280	hes family bHLH transcription factor 1
ENSG0000	1075.316	-1.57721	0.125248	-12.5927	2.32E-36	3.38E-33	SELENOK	58515	selenoprotein K
ENSG0000	146.2949	6.456761	0.517608	12.47423	1.03E-35	1.43E-32	HOXD10	3236	homeobox D10
ENSG0000	1061.686	-6.19903	0.501918	-12.3507	4.83E-35	6.34E-32	C11orf96	387763	chromosome 11 open reading frame 96
ENSG0000	1932.567	1.876146	0.153224	12.2445	1.80E-34	2.25E-31	SH3KBP1	30011	SH3 domain containing kinase binding protein 1
ENSG0000	8527.247	-2.86766	0.235011	-12.2023	3.02E-34	3.61E-31	KLF10	7071	KLF transcription factor 10
ENSG0000	87.96214	5.844008	0.485298	12.0421	2.13E-33	2.44E-30	GALNT18	374378	polypeptide N-acetylgalactosaminyltransferase 18
ENSG0000	294.9143	6.777534	0.564817	11.99953	3.57E-33	3.91E-30	VAT1L	57687	vesicle amine transport 1 like
ENSG0000	267.5419	-4.25597	0.364698	-11.6698	1.82E-31	1.84E-28	LIMS3	96626	LIM zinc finger domain containing 3
ENSG0000	259.4226	-4.25694	0.370333	-11.4949	1.40E-30	1.27E-27	LIMS4	1E+08	LIM zinc finger domain containing 4
ENSG0000	338.8982	-6.79697	0.595277	-11.4182	3.39E-30	2.97E-27	NA	NA	NA
ENSG0000	65.65142	5.880763	0.515235	11.41375	3.57E-30	3.02E-27	HOXD11	3237	homeobox D11
ENSG0000	25511.49	-1.91444	0.16782	-11.4077	3.83E-30	3.14E-27	ND4L	4539	NADH dehydrogenase subunit 4L
ENSG0000	3197.946	1.887737	0.165715	11.39146	4.61E-30	3.60E-27	PTPN13	5783	protein tyrosine phosphatase non-receptor type 13
ENSG0000	46344.4	-2.31991	0.203668	-11.3906	4.66E-30	3.60E-27	MTND2P2	1.01E+08	MT-ND2 pseudogene 28
ENSG0000	2541.964	-2.41436	0.21518	-11.2202	3.24E-29	2.43E-26	MAFF	23764	MAF bZIP transcription factor F
ENSG0000	77.03513	-3.62918	0.324131	-11.1966	4.23E-29	3.09E-26	NA	NA	NA
ENSG0000	1367.199	-1.6113	0.146106	-11.0283	2.79E-28	1.98E-25	NA	NA	NA
ENSG0000	2186.721	1.999115	0.181924	10.98876	4.33E-28	2.99E-25	ITPRID2	6744	ITPR interacting domain containing 2
ENSG0000	100.425	-3.69109	0.336626	-10.965	5.63E-28	3.79E-25	NA	NA	NA
ENSG0000	100.5881	-3.78383	0.351766	-10.7567	5.51E-27	3.53E-24	NA	NA	NA
ENSG0000	2701.762	-1.62242	0.151201	-10.7303	7.34E-27	4.59E-24	DDAH2	23564	dimethylarginine dimethylaminohydrolase 2
ENSG0000	54.7552	-4.75816	0.445771	-10.674	1.35E-26	8.04E-24	HOXC-AS2	1.01E+08	HOXC cluster antisense RNA 2
ENSG0000	228.1435	1.577099	0.148116	10.6477	1.79E-26	1.04E-23	GSPT2	23708	G1 to S phase transition 2
ENSG0000	401.2329	-4.4021	0.414703	-10.6151	2.54E-26	1.45E-23	EML6	400954	EMAP like 6
ENSG0000	359.8155	6.078262	0.576909	10.53591	5.90E-26	3.30E-23	HOXA13	3209	homeobox A13
ENSG0000	1243.021	1.661063	0.157772	10.52824	6.40E-26	3.50E-23	ZNF395	55893	zinc finger protein 395
ENSG0000	596.9496	-1.77546	0.170853	-10.3917	2.70E-25	1.45E-22	ZNF408	79797	zinc finger protein 408
ENSG0000	3129.744	-3.68871	0.360252	-10.2393	1.32E-24	6.81E-22	ZC3H12A	80149	zinc finger CCCH-type containing 12A
ENSG0000	207.4425	-10.9559	1.07403	-10.2008	1.97E-24	9.93E-22	LEP	3952	leptin
ENSG0000	1474.826	-5.21061	0.512295	-10.1711	2.67E-24	1.29E-21	ATF3	467	activating transcription factor 3
ENSG0000	1048.174	1.671962	0.164402	10.16996	2.70E-24	1.29E-21	PTGR3	284273	prostaglandin reductase 3
ENSG0000	99.36353	-5.55874	0.555998	-9.99778	1.56E-23	7.18E-21	NA	NA	NA
ENSG0000	417.2829	-5.58436	0.560241	-9.96778	2.11E-23	9.55E-21	USP2	9099	ubiquitin specific peptidase 2
ENSG0000	1508.093	-4.75232	0.476899	-9.96504	2.17E-23	9.65E-21	LOC10272	1.03E+08	salt inducible kinase 1B (putative)
ENSG0000	1365.287	-4.70383	0.472509	-9.955	2.40E-23	1.05E-20	SIK1	150094	salt inducible kinase 1
ENSG0000	479.169	-2.09912	0.211791	-9.9113	3.72E-23	1.57E-20	TUFT1	7286	tuftelin 1
ENSG0000	477.1729	-1.89239	0.190956	-9.91008	3.76E-23	1.57E-20	H1-2	3006	H1.2 linker histone, cluster member
ENSG0000	7047.515	2.231672	0.226451	9.854998	6.52E-23	2.68E-20	CD109	135228	CD109 molecule
ENSG0000	358.6499	-8.43033	0.855739	-9.85152	6.75E-23	2.73E-20	MYH1	4619	myosin heavy chain 1
ENSG0000	748.7	1.769018	0.179617	9.848814	6.94E-23	2.76E-20	PPARA	5465	peroxisome proliferator activated receptor alpha
ENSG0000	1275.773	-3.14592	0.323036	-9.73861	2.06E-22	8.09E-20	MAP3K8	1326	mitogen-activated protein kinase kinase kinase 8
ENSG0000	191.8913	1.728914	0.177595	9.735126	2.14E-22	8.25E-20	PDP2	57546	pyruvate dehydrogenase phosphatase catalytic subunit 2
ENSG0000	1519.447	-2.31635	0.238009	-9.73221	2.20E-22	8.32E-20	GDPD5	81544	glycerophosphodiester phosphodiesterase domain contain
ENSG0000	1337.994	-1.98349	0.203827	-9.73124	2.22E-22	8.32E-20	NA	NA	NA
ENSG0000	43192.03	-1.55111	0.159554	-9.72153	2.44E-22	9.03E-20	MTATP6P	1.06E+08	MT-ATP6 pseudogene 1
ENSG0000	116.8718	-10.1288	1.047503	-9.66944	4.07E-22	1.46E-19	HOXB8	3218	homeobox B8
ENSG0000	113.7697	-3.48485	0.360472	-9.66745	4.15E-22	1.47E-19	NA	NA	NA
ENSG0000	102.3169	-3.53384	0.367122	-9.62578	6.22E-22	2.18E-19	NA	NA	NA
ENSG0000	225837.6	-1.70149	0.17703	-9.61128	7.17E-22	2.48E-19	ND4	4538	NADH dehydrogenase subunit 4
ENSG0000	996.5017	-6.06082	0.63105	-9.60435	7.66E-22	2.61E-19	PCSK9	255738	proprotein convertase subtilisin/kexin type 9
ENSG0000	128355.5	-2.14083	0.223384	-9.58363	9.37E-22	3.16E-19	CYTB	4519	cytochrome b
ENSG0000	129.3665	-6.12554	0.641381	-9.55055	1.29E-21	4.18E-19	EXPH5	23086	exophilin 5
ENSG0000	2154.908	-2.73588	0.287122	-9.52863	1.59E-21	5.10E-19	LIMS2	55679	LIM zinc finger domain containing 2
ENSG0000	105.8647	-2.09924	0.220839	-9.50576	1.99E-21	6.21E-19	MMP15	4324	matrix metalloproteinase 15
ENSG0000	153.4485	-1.52603	0.16151	-9.44853	3.44E-21	1.06E-18	NA	NA	NA
ENSG0000	370.6283	-2.76478	0.294297	-9.39452	5.75E-21	1.71E-18	HSD17B14	51171	hydroxysteroid 17-beta dehydrogenase 14
ENSG0000	154.0538	-4.64282	0.494246	-9.39375	5.79E-21	1.71E-18	TRPC6	7225	transient receptor potential cation channel subfamily C member 6
ENSG0000	224.9752	1.696886	0.180719	9.389633	6.02E-21	1.76E-18	KBTBD6	89890	kelch repeat and BTB domain containing 6
ENSG0000	614.5936	-3.3338	0.355213	-9.38534	6.27E-21	1.81E-18	KIT	3815	KIT proto-oncogene, receptor tyrosine kinase
ENSG0000	961.1958	3.658463	0.391816	9.337192	9.89E-21	2.82E-18	MATN2	4147	matrilin 2
ENSG0000	700.6564	-2.09847	0.226111	-9.28068	1.68E-20	4.76E-18	DHRS7B	25979	dehydrogenase/reductase 7B
ENSG0000	1429.274	3.513165	0.380688	9.228468	2.75E-20	7.37E-18	CA12	771	carbonic anhydrase 12
ENSG0000	33.91774	-3.41513	0.370711	-9.21239	3.19E-20	8.38E-18	BHLHE40	1.01E+08	BHLHE40 antisense RNA 1
ENSG0000	938.5063	2.653177	0.288591	9.193552	3.80E-20	9.88E-18	EHD3	30845	EH domain containing 3
ENSG0000	196.1425	-1.7539	0.1914	-9.16352	5.02E-20	1.27E-17	C15orf61	145853	chromosome 15 open reading frame 61
ENSG0000	263.4157	-9.85328	1.080103	-9.12253	7.34E-20	1.82E-17	HOXB-AS3	404266	HOXB cluster antisense RNA 3
ENSG0000	4006.734	-3.2481	0.3561	-9.12132	7.42E-20	1.82E-17	PIM1	5292	Pim-1 proto-oncogene, serine/threonine kinase
ENSG0000	59.53254	3.202532	0.35161	9.108189	8.38E-20	2.04E-17	SOX8	30812	SRY-box transcription factor 8



ENSG0000	588.4189	-3.39005	0.447058	-7.58301	3.38E-14	3.48E-12	CHRD	8646	chordin
ENSG0000	27.64859	-3.73939	0.493264	-7.5809	3.43E-14	3.51E-12	CCDC148	130940	coiled-coil domain containing 148
ENSG0000	31.65399	-5.19311	0.686068	-7.56938	3.75E-14	3.79E-12	LOC10537	1.05E+08	uncharacterized LOC105370047
ENSG0000	105.4978	-2.23587	0.295906	-7.55602	4.16E-14	4.17E-12	DHRS12	79758	dehydrogenase/reductase 12
ENSG0000	17.9985	4.493609	0.594778	7.555102	4.19E-14	4.18E-12	NA	NA	NA
ENSG0000	199.0755	3.25139	0.430651	7.549936	4.35E-14	4.33E-12	PRKAR2B	5577	protein kinase cAMP-dependent type II regulatory subunit beta
ENSG0000	1495.317	-3.01048	0.3997	-7.53185	5.00E-14	4.92E-12	RNA5-8SN	1.1E+08	RNA, 5.8S ribosomal N3
ENSG0000	1494.572	-3.0097	0.399921	-7.52575	5.24E-14	5.12E-12	RNA5-8SN	1.1E+08	RNA, 5.8S ribosomal N2
ENSG0000	1493.937	-3.01154	0.40078	-7.51419	5.73E-14	5.55E-12	RNA5-8SN	1.07E+08	RNA, 5.8S ribosomal N1
ENSG0000	1493.192	-3.01076	0.401001	-7.50812	6.00E-14	5.75E-12	LOC12490	1.25E+08	5.8S ribosomal RNA
ENSG0000	1493.192	-3.01076	0.401001	-7.50812	6.00E-14	5.75E-12	LOC12490	1.25E+08	5.8S ribosomal RNA
ENSG0000	1493.192	-3.01076	0.401001	-7.50812	6.00E-14	5.75E-12	RNA5-8SP	1.1E+08	RNA, 5.8S ribosomal pseudogene 10
ENSG0000	1492.862	-3.01042	0.401074	-7.5059	6.10E-14	5.81E-12	RNA5-8SN	1E+08	RNA, 5.8S ribosomal N5
ENSG0000	1492.862	-3.01042	0.401074	-7.5059	6.10E-14	5.81E-12	RNA5-8SN	1.1E+08	RNA, 5.8S ribosomal N4
ENSG0000	108.7304	6.770845	0.90346	7.49435	6.66E-14	6.32E-12	MYPN	84665	myopalladin
ENSG0000	82.71256	2.091138	0.279763	7.474688	7.74E-14	7.29E-12	FAR2	55711	fatty acyl-CoA reductase 2
ENSG0000	93.24905	8.831182	1.181701	7.473282	7.82E-14	7.31E-12	PPP2R2B	5521	protein phosphatase 2 regulatory subunit Bbeta
ENSG0000	17596.63	-2.96255	0.396503	-7.4717	7.92E-14	7.37E-12	HMOX1	3162	heme oxygenase 1
ENSG0000	1743.851	-2.68902	0.360086	-7.4677	8.16E-14	7.57E-12	CLCF1	23529	cardiotrophin like cytokine factor 1
ENSG0000	1963.6	-2.23115	0.299032	-7.46126	8.57E-14	7.93E-12	ARL5B	221079	ADP ribosylation factor like GTPase 5B
ENSG0000	11162.55	-2.01725	0.270889	-7.44675	9.57E-14	8.75E-12	MTND1P2	1.01E+08	MT-ND1 pseudogene 23
ENSG0000	281.4301	-5.4297	0.72929	-7.44519	9.68E-14	8.83E-12	FGF18	8817	fibroblast growth factor 18
ENSG0000	76.74286	-2.38917	0.322077	-7.41801	1.19E-13	1.07E-11	NA	NA	NA
ENSG0000	106.8736	2.307133	0.3113	7.411292	1.25E-13	1.11E-11	MIR381HG	378881	MIR381 host gene
ENSG0000	88.49612	-3.66841	0.495851	-7.39821	1.38E-13	1.20E-11	SEMA6A	57556	semaphorin 6A
ENSG0000	432.9565	5.538879	0.748917	7.395855	1.41E-13	1.22E-11	TENT5C	54855	terminal nucleotidyltransferase 5C
ENSG0000	43.10068	-5.41779	0.732917	-7.39209	1.45E-13	1.25E-11	ITIH3	3699	inter-alpha-trypsin inhibitor heavy chain 3
ENSG0000	44.57541	4.218908	0.57102	7.388368	1.49E-13	1.28E-11	FRMD3	257019	FERM domain containing 3
ENSG0000	119.4693	2.360905	0.32096	7.355759	1.90E-13	1.60E-11	PM20D2	135293	peptidase M20 domain containing 2
ENSG0000	237.2115	6.913377	0.941472	7.343157	2.09E-13	1.74E-11	SLC14A1	6563	solute carrier family 14 member 1 (Kidd blood group)
ENSG0000	637.1536	-4.08734	0.557733	-7.32849	2.33E-13	1.94E-11	IGSF10	285313	immunoglobulin superfamily member 10
ENSG0000	356.587	3.574173	0.48779	7.327279	2.35E-13	1.95E-11	UBASH3B	84959	ubiquitin associated and SH3 domain containing B
ENSG0000	153.282	4.630197	0.633003	7.314657	2.58E-13	2.13E-11	CDK15	65061	cyclin dependent kinase 15
ENSG0000	2548.446	5.372185	0.735852	7.300637	2.86E-13	2.35E-11	ENPP1	5167	ectonucleotide pyrophosphatase/phosphodiesterase 1
ENSG0000	26.50738	3.740349	0.512564	7.297333	2.94E-13	2.40E-11	LTK	4058	leukocyte receptor tyrosine kinase







ENSG0000	124.9972	-3.34374	0.407745	-8.20057	2.39E-16	2.35E-14	LINC02615	100507487	long intergenic non-protein coding RNA 2615
ENSG0000	421.3938	3.333808	0.407002	8.191126	2.59E-16	2.53E-14	INSYN2B	100131897	inhibitory synaptic factor family member 2B
ENSG0000	381.777	-2.35735	0.287854	-8.1894	2.63E-16	2.54E-14	NA	NA	NA
ENSG0000	2536.062	1.532345	0.18739	8.177315	2.90E-16	2.79E-14	GOLGA4	2803	golgin A4
ENSG0000	497.931	3.091634	0.378095	8.176873	2.91E-16	2.79E-14	ZNF770	54989	zinc finger protein 770
ENSG0000	828.6896	2.52389	0.308733	8.174982	2.96E-16	2.82E-14	NA	NA	NA
ENSG0000	1617.83	1.525879	0.18791	8.12025	4.65E-16	4.34E-14	CNOT1	23019	CCR4-NOT transcription complex subunit 1
ENSG0000	1525.242	1.644605	0.202942	8.103828	5.33E-16	4.89E-14	AKAP11	11215	A-kinase anchoring protein 11
ENSG0000	99197.88	-1.82957	0.226103	-8.09173	5.88E-16	5.36E-14	NA	NA	NA
ENSG0000	532.0844	1.591591	0.197	8.079134	6.52E-16	5.88E-14	RPS27AP1	643358	RPS27A pseudogene 16
ENSG0000	89.34327	1.888525	0.234423	8.056071	7.88E-16	7.03E-14	HNRNPKP	644063	heterogeneous nuclear ribonucleoprotein K pseudogene 4
ENSG0000	560.0926	1.956532	0.243745	8.026951	9.99E-16	8.82E-14	PI4K2B	55300	phosphatidylinositol 4-kinase type 2 beta
ENSG0000	187.0027	-1.92135	0.239451	-8.02395	1.02E-15	8.94E-14	NA	NA	NA
ENSG0000	2001.595	-1.85116	0.230705	-8.02392	1.02E-15	8.94E-14	NA	NA	NA
ENSG0000	104.4869	1.531246	0.190857	8.023003	1.03E-15	8.98E-14	SUV39H2	79723	SUV39H2 histone lysine methyltransferase
ENSG0000	75.55588	2.495096	0.31282	7.976136	1.51E-15	1.30E-13	NA	NA	NA
ENSG0000	253.2461	-2.16813	0.273112	-7.9386	2.04E-15	1.72E-13	NA	NA	NA
ENSG0000	866.6064	1.778529	0.224117	7.935728	2.09E-15	1.75E-13	ZFH3	463	zinc finger homeobox 3
ENSG0000	555.7485	-2.35685	0.297219	-7.92966	2.20E-15	1.82E-13	SLC4A3	6508	solute carrier family 4 member 3
ENSG0000	755.0404	1.601232	0.201945	7.929066	2.21E-15	1.82E-13	DENND4C	55667	DENN domain containing 4C
ENSG0000	643.3359	-1.821	0.229702	-7.92767	2.23E-15	1.84E-13	PSENE1	55851	presenilin enhancer, gamma-secretase subunit
ENSG0000	2501.932	-1.64545	0.207642	-7.92446	2.29E-15	1.88E-13	NRBP2	340371	nuclear receptor binding protein 2
ENSG0000	143.4934	-5.46472	0.690601	-7.91299	2.51E-15	2.05E-13	HOXB5	3215	homeobox B5
ENSG0000	186.7282	-1.58467	0.200473	-7.90462	2.69E-15	2.18E-13	AAMDC	28971	adipogenesis associated Mth938 domain containing
ENSG0000	675.9294	1.76748	0.223678	7.90188	2.75E-15	2.22E-13	TRAF3	7187	TNF receptor associated factor 3
ENSG0000	14030.62	-2.77823	0.352791	-7.87499	3.41E-15	2.73E-13	DUSP1	1843	dual specificity phosphatase 1
ENSG0000	630.0246	1.903581	0.242192	7.859814	3.85E-15	3.07E-13	PPARA	5465	peroxisome proliferator activated receptor alpha



ENSG0000	89.78745	-2.88757	0.6912	-4.17762	2.95E-05	0.006679	CEND1	51286	cell cycle exit and neuronal differentiation 1
ENSG0000	2084.587	-2.00358	0.480117	-4.17311	3.00E-05	0.006734	EMILIN2	84034	elastin microfibril interfacier 2
ENSG0000	163.4372	-5.16716	1.242363	-4.15914	3.19E-05	0.007077	PPP2R2B	5521	protein phosphatase 2 regulatory subunit Bbeta
ENSG0000	1187.545	-1.81148	0.436227	-4.1526	3.29E-05	0.0072	WASH5P	375690	WASP family homolog 5, pseudogene
ENSG0000	17.21602	4.214509	1.018348	4.138575	3.49E-05	0.007484	CXCL5	6374	C-X-C motif chemokine ligand 5
ENSG0000	225.3796	3.253603	0.788817	4.124661	3.71E-05	0.007864	PARP8	79668	poly(ADP-ribose) polymerase family member 8
ENSG0000	520.2897	3.814356	0.931728	4.09385	4.24E-05	0.008888	TNFSF4	7292	TNF superfamily member 4
ENSG0000	2589.674	5.167372	1.264417	4.086764	4.37E-05	0.009066	OAS2	4939	2'-5'-oligoadenylate synthetase 2
ENSG0000	353.717	2.250372	0.551911	4.077416	4.55E-05	0.009337	SLC38A4	55089	solute carrier family 38 member 4
ENSG0000	57.97265	-2.20493	0.542931	-4.06116	4.88E-05	0.009907	CTSH	1512	cathepsin H





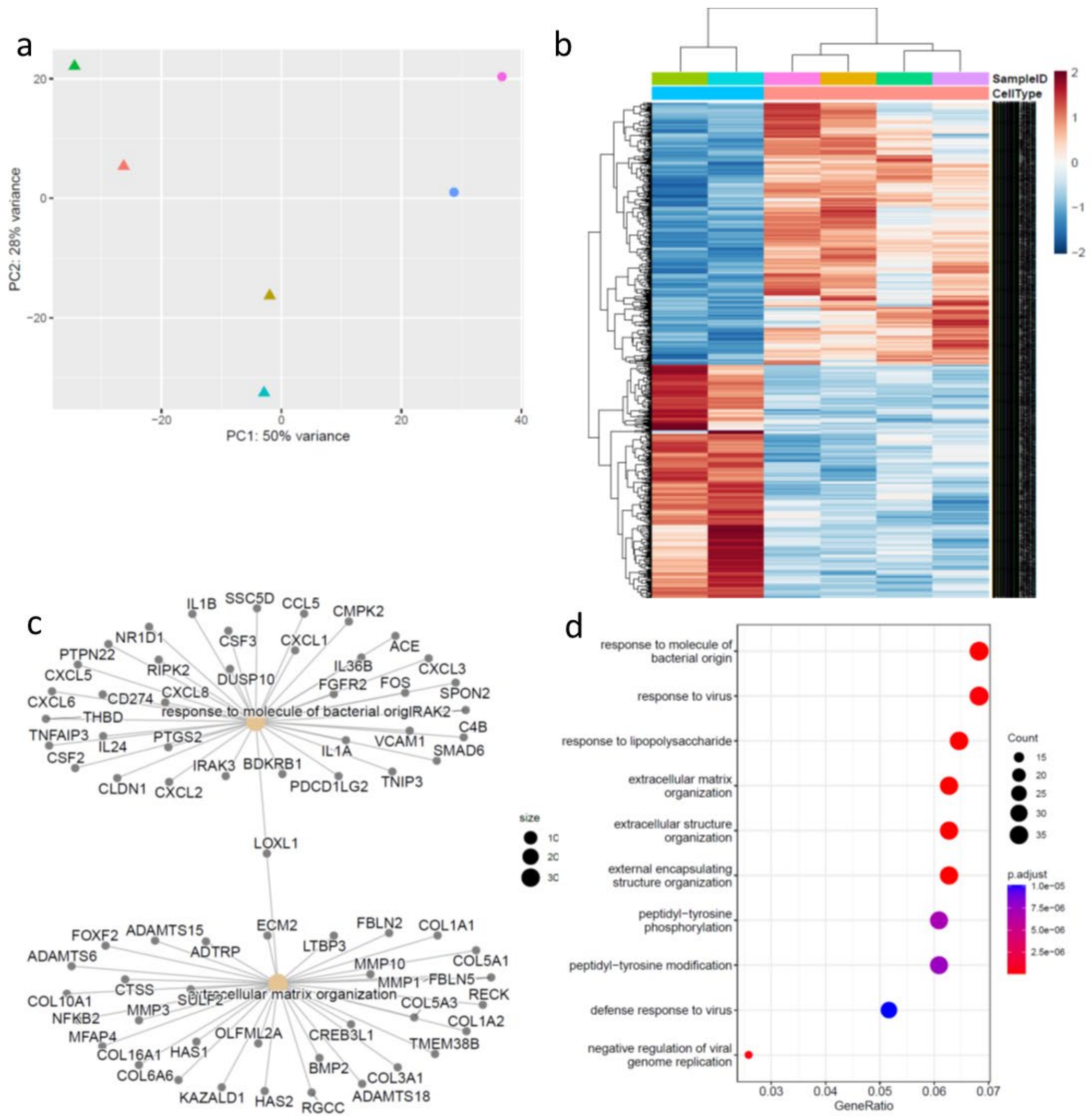
ENSG0000	3183.818	2.108196	0.405083	5.204352	1.95E-07	1.94E-05	SSC5D	284297	scavenger receptor cysteine rich family member with 5 domains
ENSG0000	1053.543	-2.35148	0.452447	-5.19725	2.02E-07	2.00E-05	FBXO32	114907	F-box protein 32
ENSG0000	33.4723	-7.73193	1.490568	-5.18724	2.13E-07	2.10E-05	MUC13	56667	mucin 13, cell surface associated
ENSG0000	96.03064	-4.78508	0.923046	-5.18401	2.17E-07	2.13E-05	PTPN22	26191	protein tyrosine phosphatase non-receptor type 22
ENSG0000	881.8898	-5.89147	1.137604	-5.17884	2.23E-07	2.18E-05	IFI44L	10964	interferon induced protein 44 like
ENSG0000	355.5621	3.663582	0.708403	5.171607	2.32E-07	2.25E-05	NA	NA	NA
ENSG0000	2757.135	3.878189	0.751944	5.157548	2.50E-07	2.40E-05	PODN	127435	podocan
ENSG0000	2349.456	-5.95561	1.15476	-5.15745	2.50E-07	2.40E-05	CXCL6	6372	C-X-C motif chemokine ligand 6
ENSG0000	165.5569	2.775147	0.538247	5.1559	2.52E-07	2.41E-05	LOC72839	728392	uncharacterized LOC728392
ENSG0000	84.18152	-5.50176	1.067488	-5.15394	2.55E-07	2.43E-05	NA	NA	NA
ENSG0000	108.4969	-7.38842	1.43502	-5.14865	2.62E-07	2.48E-05	CCL5	6352	C-C motif chemokine ligand 5
ENSG0000	2037.784	1.927662	0.374452	5.147958	2.63E-07	2.48E-05	TSHZ1	10194	teashirt zinc finger homeobox 1
ENSG0000	207.9726	-4.54869	0.884094	-5.14503	2.67E-07	2.51E-05	ISG20	3669	interferon stimulated exonuclease gene 20







ENSG0000	1021.71	-5.41592	0.704335	-7.68941	1.48E-14	1.36E-12	FABP3	2170 fatty acid binding protein 3
ENSG0000	2512.268	5.031316	0.656509	7.663744	1.81E-14	1.62E-12	ENPP1	5167 ectonucleotide pyrophosphatase/phosphodiesterase 1
ENSG0000	175.1274	2.328193	0.303895	7.661165	1.84E-14	1.65E-12	MBNL3	55796 muscleblind like splicing regulator 3
ENSG0000	196797.3	-1.985	0.259341	-7.65402	1.95E-14	1.73E-12	ND4	4538 NADH dehydrogenase subunit 4
ENSG0000	46.81836	-1.64439	0.21501	-7.64795	2.04E-14	1.80E-12	ATP6AP1-	158960 ATP6AP1 divergent transcript
ENSG0000	75.6988	-4.76642	0.62364	-7.6429	2.12E-14	1.85E-12	TMEM88	92162 transmembrane protein 88
ENSG0000	517.4082	2.660464	0.348417	7.635868	2.24E-14	1.94E-12	THSD4	79875 thrombospondin type 1 domain containing 4
ENSG0000	57.43588	4.468204	0.585473	7.63179	2.32E-14	1.99E-12	NA	NA
ENSG0000	45.33787	-4.60448	0.603406	-7.63081	2.33E-14	2.00E-12	NA	NA
ENSG0000	69.98122	-2.33145	0.305848	-7.62292	2.48E-14	2.12E-12	NA	NA
ENSG0000	42.17259	-1.79207	0.236563	-7.57543	3.58E-14	3.01E-12	NA	NA
ENSG0000	40.06613	2.333696	0.308159	7.573023	3.65E-14	3.06E-12	MAP10	54627 microtubule associated protein 10
ENSG0000	32.12284	-2.69676	0.356154	-7.57188	3.68E-14	3.07E-12	NA	NA
ENSG0000	49.14957	9.01836	1.191069	7.571654	3.69E-14	3.07E-12	NA	NA
ENSG0000	95.99523	8.543133	1.130256	7.558583	4.07E-14	3.38E-12	SHOX	6473 short stature homeobox
ENSG0000	235.5587	2.447341	0.324015	7.553168	4.25E-14	3.50E-12	CNIH3	149111 cornichon family AMPA receptor auxiliary protein 3
ENSG0000	53.93909	-7.80817	1.034709	-7.54625	4.48E-14	3.66E-12	NPNT	255743 nephronectin
ENSG0000	6411.784	-2.23815	0.29661	-7.54576	4.50E-14	3.66E-12	CCNL1	57018 cyclin L1
ENSG0000	23.86668	-3.47719	0.461035	-7.54213	4.62E-14	3.74E-12	FLJ12825	440101 uncharacterized LOC440101
ENSG0000	20.54272	-4.22768	0.560646	-7.54073	4.67E-14	3.76E-12	NA	NA
ENSG0000	376.4658	-1.6855	0.22357	-7.53905	4.73E-14	3.79E-12	INTS6L	203522 integrator complex subunit 6 like
ENSG0000	70.35851	1.763044	0.234265	7.525847	5.24E-14	4.17E-12	NA	NA
ENSG0000	417249	-1.95067	0.259456	-7.51831	5.55E-14	4.37E-12	COX1	4512 cytochrome c oxidase subunit I
ENSG0000	261.196	1.708592	0.227848	7.498828	6.44E-14	5.05E-12	ZBTB6	10773 zinc finger and BTB domain containing 6
ENSG0000	46.21098	1.947751	0.260064	7.489517	6.91E-14	5.39E-12	NA	NA
ENSG0000	2768.068	-3.19402	0.42661	-7.48697	7.05E-14	5.48E-12	ZC3H12A	80149 zinc finger CCCH-type containing 12A
ENSG0000	23.09838	-3.31275	0.442513	-7.48622	7.09E-14	5.48E-12	SLC52A1	55065 solute carrier family 52 member 1
ENSG0000	670.1142	-2.74418	0.366604	-7.48541	7.13E-14	5.50E-12	RASD1	51655 ras related dexamethasone induced 1
ENSG0000	160.75	1.798934	0.241361	7.453289	9.10E-14	6.84E-12	NA	NA
ENSG0000	1137.111	1.777016	0.23851	7.450502	9.30E-14	6.97E-12	SYT11	23208 synaptotagmin 11
ENSG0000	454.2461	-2.23233	0.299989	-7.44136	9.97E-14	7.45E-12	SLC19A2	10560 solute carrier family 19 member 2
ENSG0000	575.7942	2.457668	0.331007	7.424833	1.13E-13	8.37E-12	ZNF770	54989 zinc finger protein 770
ENSG0000	1346.564	2.552883	0.343988	7.421423	1.16E-13	8.54E-12	ZNF281	23528 zinc finger protein 281
ENSG0000	572.4333	10.36745	1.397806	7.416948	1.20E-13	8.81E-12	USP9Y	8287 ubiquitin specific peptidase 9 Y-linked



*Supp Figure 1. Differentially expressed genes identified in Dupuytren disease cord fibroblasts compared to WNT4scrambledsiRNA. (A) PCA analysis of the DDC fibroblasts and ScramsiRNA (triangle is DDC, circle is ScramsiRNA). (B) Heatmap showing clustering of significantly differentially expressed genes in DDC (cream) vs ScramsiRNA (blue) fibroblasts. (C) Concept network plot representing the expression of genes from functional categories associated with extracellular matrix. The selected genes were identified based on GO analysis. (D) GO analysis identified over-representative GO terms for the DEGs in treated fibroblasts. The top 10 significantly enriched GO terms in the biological pathway are shown and include extracellular matrix and structure and organization.*