

Supplemental Table 5  
Comparison of human AD signature genes across human and mouse datasets

Gene Symbol	Descriptions	Human												Mouse											
		Blalock et al., 2011		Blalock et al., 2004		Berchtold et al., 2013		Hokama et al., 2014		Nagahara et al., 2014		Keirnan et al., 2014		Hokama et al., 2014		Paessler et al., 2015		Gjoneska et al., 2015		Neuner et al., 2017					
Model		WT												5x7AD											
Paper		28146		1297		48350		36980		14499		36337		36981		30521		65159		65159					
GSE ID		HG-U133_Plus_2		HG-U133A		HG-U133_Plus_2		HuGene-1_0-st		Mouse 430_2		Mouse 430_2		MoGene-1_0-st		MoEx-1_0-st		Illumina HiSeq 2000		Illumina HiSeq 2500					
Platform		RMA		RMA		RMA		RMA		RMA		RMA		RMA		RMA		na		na					
PLA		66-101yr		66-101yr		69-99yr		55-105yr		7 mo		4 mo		14 mo		14 mo		14 mo		14 mo					
Age range		Ctrl vs AD		Ctrl vs AD		Ctrl vs AD		Ctrl vs AD		WT vs Tg (GF)		WT vs Tg		WT vs Tg		WT vs Tg		CK vs p25 (6 wk)		Ntg-BXD vs AD-BXD					
Contrast		HIP		HIP		HIP		HIP		HIP		HIP		HIP		HIP		HIP		HIP					
Brain Region		p-val	L2FC	p-val	L2FC	p-val	L2FC	p-val	L2FC	p-val	L2FC	p-val	L2FC	p-val	L2FC	p-val	L2FC	p-val	L2FC	p-val	L2FC				
AMPH	amphiphysin	0.00525	-0.70928	0.04741	-0.69606	6.83749E-05	-1.28642	0.04111	-0.61862	0.538	0.047	0.4624	0.063	0.172	0.049	0.09213	-0.08829			0.030683	0.0788				
ANGPT1	angiotensinogen 1	0.01887	0.41479	0.01275	0.28125	0.000217405	0.99206	0.01173	0.65052	0.773	0.061	0.1622	-0.25	0.15	-0.34	0.04407	0.6939			2.84E-09	-0.1174				
ANCG3	anocornin 3	0.03009	-0.31765	0.01067	-0.9949	0.019691088	-0.73433	0.0112	-0.85285	0.613	-0.14	0.8564	0.024	0.445	0.068			0.017464	-0.831458985	1.50E-38	1.02014				
AFLNR	afadin receptor	0.06943	0.64548	0.00655	0.85133	0.028997644	0.54718	0.04003	0.91535	0.154	0.912	0.407	0.08	0.194	0.235	0.06048	-0.34818			9.97E-07	-0.15386				
ATP5V1G2	ATPase H+ transporting V1 subunit G2	0.00123	-0.96894	0.00195	-1.17854	8.75278E-05	-1.06023	0.00513	-0.65358	0.166	0.129	0.6139	0.028	0.864	-0	0.66857	-0.01114			0.48101	0.08475				
ATRNL1	attractin like 1	0.015	-0.55081	0.00315	-0.90048	0.003670984	-0.79777	0.03596	-0.74362	0.226	-0.16	0.013	-0.19	0.238	-0.05	0.02548	-0.139			6.10E-11	-0.14818				
CACNG3	calcium voltage-gated channel auxiliary subunit 3	0.03926	-0.48219	0.00061	-0.95559	0.011704877	-0.85092	0.00461	-1.01365	0.691	0.06	0.6065	0.043	0.53	-0.03			0.108504	-0.295076875	7.24E-14	-0.20086				
CAP2	CAP, adenylate cyclase-associated protein 2 (y)	0.00356	-0.88373	0.00959	-0.94425	0.005571781	-0.85634	0.01259	-0.5905	0.217	-0.15	0.3908	0.066	0.026	0.059	0.07201	-0.11394			0.00108	-0.1318				
COLEC12	colectin subfamily member 12	0.40054	0.27727	0.01268	0.54174	0.018646854	0.52599	0.00959	0.56733	0.897	-0.03	0.0466	-0.24	0.345	-0.18	0.70437	-0.07585			9.27E-08	-0.15473				
CRYM	crystallin mu	0.00136	-0.84022	0.04879	-0.73647	0.000782783	-1.15061	0.00278	-0.75267	0.59	-0.09	0.9745	-0.01	0.322	-0.12	0.07603	-0.20761	0.017164	-0.833089295	0.001278	-0.32636				
DIRAS2	DIRAS family GTP binding RAS like 2	0.02834	-0.46836	0.02112	-0.78045	0.005120557	-0.78786	0.04476	-0.72658	0.963	0.001	0.3307	0.036	0.094	-0.04	0.80944	0.02394			1.14E-14	-0.34008				
ECM2	extracellular matrix protein 2, female orcan and	0.97156	0.00575	0.01153	0.6555	0.011998898	0.96646	0.04255	0.85704	0.117	-0.35	0.8304	0.02	0.053	-0.2	0.08803	-0.25933			5.27E-15	-0.16519				
ELAVL4	ELAV like neuron-specific RNA binding protein-	0.19309	-0.44007	0.03752	-0.6548	0.002003036	-0.91465	0.01032	-0.94653	0.335	0.136	0.2103	0.151	0.785	0.02	0.33555	-0.05348	0.620814	-0.112635198	2.78E-06	-0.11474				
ENC1	ectodermal-neural cortex 1	0.00039	-0.60892	0.01107	-0.8452	0.001433006	-0.0975	0.00318	-0.484	0.672	0.019	0.4889	0.035	0.226	0.023	0.38371	-0.07619			3.13E-07	-0.23337				
ERBB2IP	erbB2 interacting protein	0.01001	0.4166	0.0064	0.65791	0.00166032	0.50716	0.01589	-0.84614	0.577	0.082	0.0135	-0.39	0.315	0.069	0.04232	0.69281			0.941089	0.00166				
GABBR2	gamma-aminobutyric acid type B receptor subu	0.01284	-0.42343	0.00704	-0.85604	0.001234021	-0.81918	0.00503	-0.75783						0.214	-0.05		0.169464	-0.339587609	0.815559	0.01328				
GABRA5	gamma-aminobutyric acid type A receptor alpha	0.08492	-0.4997	0.02705	-1.03274	0.000705306	-1.37964	0.00227	-0.72433	0.939	-0.01	0.8954	-0.02	0.02	0.116	0.26167	-0.1208	0.283493	-0.288165121	3.56E-12	-0.28097				
GJA1	gap junction protein alpha 1	0.21854	0.34633	0.02963	0.39057	0.002145675	0.46544	0.01367	0.66126	0.596	-0.04	0.0014	-0.22	0.113	-0.06	0.4644	0.06023	9.3E-05	0.885083546	2.98E-07	-0.15501				
GLRB	glycine receptor beta	0.09149	-0.52339	0.01949	-1.08181	0.002875452	-0.87396	0.01213	-0.6652	0.609	0.099	0.4412	-0.13	0.119	0.035	0.34291	-0.06568	0.768237	-0.062376697	0.941089	0.00166				
GLS	glutaminase	0.00309	-0.39728	0.00691	-0.91612	0.000359326	-0.94653	0.03549	-0.52161	0.534	-0.04	0.3032	0.093	0.287	0.056			0.062258	-0.48112669	5.64E-10	-0.16178				
GMPR	guanosine monophosphate reductase	0.16215	0.27174	0.00096	0.61753	0.004682555	0.60243	0.03326	0.85431	0.311	0.09	0.1473	0.083	0.053	0.214	0.49148	-0.02348			1.22E-13	-0.20017				
HOPX	HOP homeobox	0.00236	-1.05612	0.00559	-0.89123	0.013434761	-0.67814	0.00099	-0.79535	0.402	-0.17	0.6771	0.106	0.041	-0.17	0.30091	-0.08848	0.052531	-0.797980079	8.42E-05	-0.10903				
HPRT1	hypoxanthine phosphoribosyltransferase 1	0.02014	-0.68246	0.00828	-1.09198	0.000173503	-1.06282	0.02564	-0.84222											0.00119	-0.00259				
INA	intermem phosphorintermediate filament protein	0.00456	-0.54357	0.01157	-0.72074	0.000169921	-1.19506	0.02791	-0.65526	0.247	-0.08	0.929	0.004	0.142	0.054	0.8111	-0.00259			2.07E-18	0.38528				
ITGB4	integrin subunit beta 4	0.03955	0.33166	0.00517	0.78923	0.007785745	0.62184	0.04614	0.76155	0.927	-0.02	0.6977	-0.04	0.704	0.033	0.28972	0.05203			0.002697	0.14576				
ITPKB	inositol-trisphosphate 3-kinase B	0.17975	0.29228	0.01312	0.74228	0.003555628	0.48983	0.02039	0.55433	0.756	0.028	0.2514	-0.08	0.034	-0.16			0.001924	1.09661819	1.35E-07	-0.15236				
LDB2	lim domain binding 2	0.00098	-0.56412	0.0012	-1.07233	0.001913762	-0.7728	0.0123	-0.77717	0.845	0.038	0.4367	0.094	0.003	-0.15	0.30954	-0.0716	0.307699	-0.316027493	0.525023	0.03081				
LRRC1	leucine rich repeat containing 1	0.12164	0.43965	0.01246	0.4783	0.014734193	0.50323	0.04302	0.40874	0.698	-0.03	0.0552	-0.16	0.7	-0.04	0.06733	0.19003			5.47E-15	-0.40946				
MLL1T1	myeloid/lymphoid or mixed-lineage leukemia, tra	0.03213	-0.59458	0.0097	-0.77127	3.77744E-05	-1.04028	0.00964	-0.59993	0.537	0.035	0.1982	0.071	0.207	0.038	0.89729	-0.0323	0.416876	-0.25821739	6.89E-16	-0.1881				
MYT1L	myelin transcription factor 1 like	0.00921	-0.47701	0.00383	-1.04333	0.000484919	-0.99501	0.0065	-0.59394	0.474	0.146	0.551	0.035	0.454	0.028	0.27074	-0.08412			0.130025	-0.04111				
NAP1L2	nucleosome assembly protein 1-like 2	0.00293	-0.8263	0.01082	-1.06156	0.000594882	-0.86751	0.04173	-0.62659	0.368	0.091	0.3295	0.035	0.067	-0.12	0.12547	-0.11686	0.141326	-0.357659608	0.000241	-0.12607				
NEFL	neurofilament, light polypeptide	0.00018	-0.72573	0.01132	-1.11565	0.000351819	-1.32099	0.0141	-0.67802	0.213	0.045	0.2563	0.046	0.061	0.043	0.39911	-0.09434	0.134754	-0.464587207	1.49E-13	-0.16688				
NEFM	neurofilament, medium polypeptide	9.7E-05	-1.02144	0.01171	-1.05336	0.000787336	-1.36816	0.02826	-0.63859	0.041	0.102	0.4293	0.047	0.81	0.014	0.01418	-0.08148	0.168871	-0.341889827	0.000415	-0.06894				
NELL1	neural EGFL like 1	0.04416	-0.49064	0.00677	-1.00469	0.001211344	-1.05491	0.00834	-0.80042	0.345	0.136	0.3958	-0.27	0.425	-0.05	0.01688	-0.28257	0.670106	0.083125316	0.207609	0.03346				
NELL2	neural EGFL like 2	0.04538	-0.67596	0.02523	-0.95068	0.008114867	-0.93074	0.01311	-0.85402	0.234	0.135	0.3515	-0.07	0.134	0.054	0.36809	-0.03976			0.155236	-0.0346				
NMNAT2	nicotinamide nucleotide adenylyltransferase 2	0.0199	-0.58339	0.00754	-0.98183	0.000260815	-1.25819	0.01501	-0.59174	0.83	-0.01	0.4097	0.063	0.782	0.005	0.09294	-0.10158	0.21019	-0.290105087	1.98E-11	-0.20799				
OPCML	opoid binding protein/cell adhesion molecule-like	0.00333	-0.53687	0.02653	-0.89794	0.000410499	-0.82168	0.02719	-0.77988	0.918	0.01	0.2885	0.08	0.763	-0.01	0.06231	-0.09666	0.316471	-0.251937759	6.69E-16	-0.1881				
PLCE1	phospholipase C epsilon 1	0.13849	0.19827	0.00056	0.50971	0.006592446	0.41736	0.02495	0.4705	0.758	0.052	0.8894	-0.02	0.09	-0.11	0.00826	0.67399			1.95E-29	0.83192				
RALYL	RALY RNA binding protein-like	0.011	-1.00987	0.0034	-0.89025	0.003220966	-0.76812	0.04481	-0.72386	0.416	0.05	0.3504	0.043	0.322	0.063	0.05804	-0.16227	0.365235	-0.283792966	0.002568	-0.10238				
RG54	regulator of G-protein signaling 4	0.00164	-0.85482	0.02758	-1.05255	0.000648409	-1.43944	0.02819	-1.30484	0.546	0.063	0.0524	0.273	0.118	0.127	0.02705	-0.18454	0.547229	-0.198621729	0.009925	-0.03093				
RG57	regulator																								