Results of the Gene Analysis performed on the top 50 genes in the AD affected network of mouse

	Gene Name	Gene ID_REF	Gene IDENTIFIER	David Gene Name	Gene Category	GIFts	Disorders (Association Score)	Type of Disorder
1	G_V10901	1426595_at	Slc18a1	solute carrier family 18 (vesicular monoamine), member 1(Slc18a1)	Protein Coding	46	barbiturate abuse (5.73) bipolar i disorder (2.68) von hippel-lindau syndrome (2.63) adrenal neuroblastoma (2.16) multiple mucosal neuroma (1.49)	Mental Disease Mental Disease genetic multi-system disorder Endocrine disease Neuronal disease
2	G_V43981	1459686_at	BB779582	-	-	-	-	
3	G_V8645	1424339_at	Oasl1	2'-5' oligoadenylate synthetase-like 1(Oasl1)	Protein Coding	41	west nile fever (5.80) west nile virus infection (3.08) microphthalmia with limb anomalies (3.02) breast large cell neuroendocrine carcinoma (2.13) west nile encephalitis (1.50)	Infectious Disease Infectious Disease Genetic multi-system disease Neuronal Disease Neuronal Disease
4	G_V10638	1426332_a_at	Cldn3	claudin 3(Cldn3)	Protein Coding	41	papillary carcinoma (4.62) williams-beuren syndrome (3.44) prostate transitional cell carcinoma (3.24) endometrial cancer (2.96) ovarian cancer (2.63)	Cancer Diseases Genetic multi-system disease Cancer Diseases (Reproductive) Cancer Diseases (Reproductive) Cancer Diseases (Reproductive)
5	G_V16418	1432112_at	4930589L23Rik	RIKEN cDNA 4930589L23 gene(4930589L23Rik)	-	-	-	
6	G_V14141	1429835_at	Pinlyp	hospholipase A2 inhibitor and LY6/PLAUR domain containing(Pinly	Protein Coding	23	chorioangioma (4.09) mitochondrial trifunctional protein deficiency (1.19)	Cancer Disease (Reproductive) Neuronal Disease
7	G_V6660	1422354_at	Olfr544	olfactory receptor 544(Olfr544)	Pseudogene	7	-	
8	G_V33866	1449566_at	Nkx2-5	NK2 homeobox 5(Nkx2-5)	Protein Coding	45	atrial septal defect 7 with or without atrioventricular conduction defects (1696.97*) ventricular septal defect (1317.44*) hypothyroidism, congenital, nongoitrous (1307.96*) hypoplastic left heart syndrome (1017.11*) tetralogy of fallot (791.85*)	Cardiovascular Disease Cardiovascular Disease Endocrine Diseases Cardiovascular Disease Cardiovascular Disease
9	G_V39579	1455284_x_at	Pigx	phosphatidylinositol glycan anchor biosynthesis, class X(Pigx)	Protein Coding	35	-	-
10	G_V3750	1419419_at	Fam50b	family with sequence similarity 50, member B(Fam50b)	Protein Coding	31	temple syndrome (2.20) gestational trophoblastic neoplasm (1.18) transient neonatal diabetes mellitus (1.12) silver-russell syndrome (1.02) beckwith-wiedemann syndrome (0.62)	Neuronal Disease Cancer Disease (Reproductive) Endocrine Disease Genetic multi-system disease Nephrological Disease
11	G_V44490	1460197_a_at	Steap4	STEAP family member 4(Steap4)	Protein Coding	41	hepatocellular carcinoma (13.62) arthritis (3.38) rheumatoid arthritis (1.48) prostate cancer (1.14)	Cancer Disease (Liver) Inflammatory Joint Disease Inflammatory Joint Disease Cancer Disease (Reproductive)
12	G_V38137	1453842_at	Pard3bos1	par-3 family cell polarity regulator beta, opposite strand 1(Pard3b	-	-	-	-
13	G_V10418	1426112_a_at	Cd72	CD72 antigen(Cd72)	Protein Coding	41	small intestine lymphoma (2.16) shoulder impingement syndrome (1.59) systemic lupus erythematosus (1.56) leukemia, chronic lymphocytic (1.24)	Cancer Disease (Gastrointestinal) Musculoskeletal Disease Nephrological Disease Cancer Disease (Blood)
14	G_V7198	1422892_s_at	H2-Ea-ps	histocompatibility 2, class II antigen E alpha, pseudogene(H2-Ea-ps	Protein Coding	48	graham-little-piccardi-lassueur syndrome (25.00) penicillin allergy (5.22) keshan disease (3.67) rheumatoid arthritis (1.97) systemic lupus erythematosus (1.91)	Skin Disease Immune Disease Cardiovascular Disease Inflammatory Joint Disease Nephrological Disease
15	G_V5978	1421672_at	Il17a	interleukin 17A(Il17a)	Protein Coding	43	arthritis (17.42) bronchiolitis obliterans (13.62) allergic contact dermatitis (12.06) amebiasis (11.93) rheumatoid arthritis (10.05)	Inflammatory Joint Disease Respiratory Disease Immune Disease (Skin) Gastrointestinal Disease Inflammatory Joint Disease
16	G_V15841	1431535_at	Plb1	phospholipase B1(Plb1)	Protein Coding	37	fungal meningitis (4.17) cryptococcosis (2.54) myopathy, distal (2.41) denture stomatitis (2.13) cryptococcal meningitis (1.92)	Neuronal Disease Rare Infectious Disease Neuronal Disease Oral Disease Neuronal Disease
17	G_V11493	1427187_at	B3gntl1	acetylglucosaminyltransferase-like 1(B3gntl1)	Pseudogene	3	-	-
18	G_V17318	1433012_at	Mga	MAX gene associated(Mga)	-	-	-	-
19	G_V30281	1445975_at	Gm8709	glyceraldehyde-3-phosphate dehydrogenase pseudogene(Gm8709)	-	-	-	-
20	G_V35965	1451670_at	Rab43	RAB43, member RAS oncogene family(Rab43)	Protein Coding	36	cone-rod dystrophy 2 (0.38)	Neuronal Disease
21	G_V36576	1452281_at	Sos2	son of sevenless homolog 2 (Drosophila)(Sos2)	Protein Coding	46	noonan syndrome 9 (1364) noonan syndrome 1 (260.77) pseudo-turner syndrome (128.14) rasopathy (9.47) noonan syndrome-like disorder with loose anagen hair 2 (3.17)	Neuronal Disease Genetic multi-system disease Genetic multi-system disease Genetic multi-system disease Genetic multi-system disease
22	G_V37588	1453293_a_at	2810408A11Rik	RIKEN cDNA 2810408A11 gene(2810408A11Rik)	-	-	-	-
23	G_V4214	1419895_at	AA536748	expressed sequence AA536748(AA536748)	-	-	-	-
24	G_V34498	1450203_at	Smyd1	SET and MYND domain containing 1(Smyd1)	Protein Coding	40	hypertrophic cardiomyopathy (0.72)	Cardiovascular Disease
25	G_V29321	1445015_at	BG069286	-	-	-	-	
26	G_V18886	1434580_at	Enpp4	ectonucleotide pyrophosphatase/phosphodiesterase 4(Enpp4)	-	-	-	
27	G_V10378	1426072_at	Cmklr1	chemokine-like receptor 1(Cmklr1)	Protein Coding	41	monckeberg arteriosclerosis (3.30) cardiovascular syphilis (3.07) demyelinating disease (2.06) hepatic adenomas, familial (1.90)	Cardiovascular Disease Cardiovascular Disease Neuronal Disease Gastrointestinal Disease
28	G_V15467	1431161_at	Arhgef28	Rho guanine nucleotide exchange factor (GEF) 28(Arhgef28)	-	-	-	-
29	G_V16958	1432652_at	1700008H02Rik	RIKEN cDNA 1700008H02 gene(1700008H02Rik)	-	-	-	-
30	G_V12029	1427723_at	Gdf11	growth differentiation factor 11(Gdf11)	Protein Coding	41	vertebral hypersegmentation and orofacial anomalies (957.78) orofacial clefting syndrome (14.43) orofacial cleft (10.72) currarino syndrome (5.37) aging (5.22)	Genetic Disease Rare Fetal Disease Genetic Fetal Disease Genetic Reproductive Disease Multi-system Disease
31	G_V17393	1433087_at	5330430C04Rik	-	-	-	-	-
32	G_V20530	1436224_at	Kif1c	kinesin family member 1C(Kif1c)	Pseudogene	3	-	-
33	G_V4562	1420243_at	Zeb1	zinc finger E-box binding homeobox 1(Zeb1)	Protein Coding	49	corneal dystrophy, posterior polymorphous, 3 (1015.93) corneal dystrophy, fuchs endothelial, 6 (943.73) corneal dystrophy (454.94) corneal dystrophy, posterior polymorphous, 1 (448.13) intraocular pressure quantitative trait locus (404.56)	Neuronal Disease Genetic Eye disease Neuronal Disease Neuronal Disease Neuronal Disease
34	G_V32174	1447868_x_at	Gm12669	glutaredoxin 3(Glrx3)	Protein Coding	41	deficiency anemia (0.69)	Immune Disease
35	G_V1341	1417010_at	Zbtb18	zinc finger and BTB domain containing 18(Zbtb18)	Protein Coding	40	mental retardation, autosomal dominant 22 (1074.75) disease of mental health (34.02) alacrima, achalasia, and mental retardation syndrome (28.43) retinitis pigmentosa 58 (3.08) transient neonatal thrombocytopenia (4.41)	Mental Disease Mental Disease Genetic Disease Neuronal Disease Blood Disease
36	G_V16728	1432422_at	1700063K16Rik	RIKEN cDNA 1700063K16 gene(1700063K16Rik)	-	-	-	-
37	G_V39433	1455138_x_at	Cfl1	cofilin 1, non-muscle(Cfl1)	Protein Coding	47	kaposi sarcoma (723.73) rheumatoid arthritis, systemic juvenile (698.48) inflammatory bowel disease (480.19) arteriovenous malformations of the brain (479.72) type 2 diabetes mellitus (162.43)	Neuronal Disease Neuronal Disease Rare Disease Neuronal Disease Nephrological Disease
38	G_V6499	1422193_at	Gucy2e	guanylate cyclase 2e(Gucy2e)	-	-	-	-
39	G_V42753	1458458_at	Slfn5	schlafen 5(Slfn5)	Protein Coding	32	-	-

40	G_V38029	1453734_at	Atrx	alpha thalassemia/mental retardation syndrome X-linked(Atrx)	Protein Coding	47	alpha-thalassemia myelodysplasia syndrome (1367.19) alpha-thalassemia/mental retardation syndrome, x-linked 1 (1278.02) mental retardation-hypotonic facies syndrome, x-linked, 1 (1243.63) alpha thalassemia-x-linked intellectual disability syndrome (905.69) high-grade astrocytoma (400.00)	Blood Disease Neuronal Disease Mental Disease Neuronal Disease Neuronal Disease
41	G_V7559	1423253_at	Mpz	myelin protein zero(Mpz)	Protein Coding	44	charcot-marie-tooth disease, demyelinating, type 1b (1704.80) hypertrophic neuropathy of dejerine-sottas (1695.91) charcot-marie-tooth disease, dominant intermediate d (1691.87) charcot-marie-tooth disease, axonal, type 2j (1682.79) charcot-marie-tooth disease, axonal, type 2i (1682.68)	Neuronal Disease Neuronal Disease Genetic multi-system disease Genetic multi-system disease Genetic multi-system disease
42	G_V40227	1455932_at	Mtdh	metadherin(Mtdh)	Protein Coding	41	tongue carcinoma (3.85) gallbladder adenocarcinoma (2.77) nervous system disease (2.36) central nervous system disease (2.29) salivary gland carcinoma (2.19)	Cancer (Gastrointestinal) Disease Cancer (Gastrointestinal) Disease Neuronal Disease Neuronal Disease Cancer (Gastrointestinal) Disease
43	G_V31076	1446770_at	Pik3cd	phosphatidylinositol 3-kinase catalytic delta polypeptide(Pik3cd)	Protein Coding	54	immunodeficiency 14 (1692.60) roifman-chitayat syndrome (247.49) combined immunodeficiency (3.27) hepatosplenic t-cell lymphoma (2.66) lymphopenia (2.47)	Genetic multi-system disease Genetic multi-system disease Genetic Immune disease Immune disease Genetic respiratory disease
44	G_V18958	1434652_at	Cdc42bpb	CDC42 binding protein kinase beta(Cdc42bpb)	-	-	-	-
45	G_V19918	1435612_at	Opcml	opioid binding protein/cell adhesion molecule-like(Opcml)	Protein Coding	43	ovarian cancer (948.57) hypogonadotropic hypogonadism 14 with or without anosmia (2.37) jacobsen syndrome (0.97)	Cancer (Reproductive) Disease Genetic multi-system disease Genetic multi-system disease
46	G_V21475	1437169_at	Pdlim1	PDZ and LIM domain 1 (elfin)(Pdlim1)	Protein Coding	41	supravalvular aortic stenosis (13.55) hyperacusis (6.65) idiopathic infantile hypercalcemia (4.08) williams-beuren syndrome (3.11) orthostatic intolerance (2.63)	Cardiovascular Disease Neuronal Disease Nephrological Disease Genetic multi-system disease Mental Disease
47	G_V2056	1417725_a_at	Sssca1	sjogren's syndrome/scleroderma autoantigen 1 homolog (human)(Sssca1	Protein Coding	29	sjogren syndrome (2.31)	Immune Disease
48	G_V7806	1423500_a_at	Sox5	SRY (sex determining region Y)-box 5(Sox5)	Protein Coding	47	lamb-shaffer syndrome (1428.60) optic nerve hypoplasia, bilateral (163.30) colorectal cancer (13.18) strabismus (6.00) campomelic dysplasia (2.10)	Neuronal Disease Neuronal Disease Genetic (Gastrointestinal) Disease Neuronal Disease Genetic multi-system disease
49	G_V26466	1442160_at	Fam19a3	family with sequence similarity 19, member A3(Fam19a3)	-	-	-	-
50	G_V9862	1425556_at	Cdk12	cyclin-dependent kinase 12(Cdk12)	Protein Coding	41	lung cancer susceptibility 3 (2.98) corneal endothelial dystrophy (2.41) lung cancer (2.03) bartholin's gland adenocarcinoma (1.34) gastric cancer (1.16)	Cancer (Respiratory) Disease Neuronal Disease Cancer (Respiratory) Disease Cancer (Reproductive) Disease Cancer (Gastrointestinal) Disease