

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_CC_DIRECT	GO:0005887~integral component of plasma membrane	40	15.50387597	1.29E-06	GABRB2, CHRM3, GAL3ST1, AQP6, SLC3A1, SEMA3E, AQP5, SLC5A1, TSPAN12, AQP2, SLC6A20, SLC4A4, UPK1B, ATP7B, TSPAN8, ERBB4, FLRT3, IYD, SCN9A, SLITRK6, SLC16A9, PROM1, DRD2, PCDHAC2, CACNG4, PCDHAC1, KCNH2, SLC34A2, SLC2A10, KCNH8, OPRK1, HTR3A, SYT13, SSTR5, CLDN3, CDHR5, SLC28A2, BMPR1B, LGR6, CDH16, SLC34A2, IGFBP2, AQP6, SLC3A1, SORBS2, AQP5, SLC5A1, AQP2, SLC6A20, SLC9A4, EPCAM, SLC29A4, CDHR5, ZMYND10, PROM1, TDGF1, SHANK2	241	1447	20164	2.312869379	3.42E-04	3.42E-04	3.26E-04
GOTERM_CC_DIRECT	GO:0016324~apical plasma membrane	17	6.589147287	9.68E-06	CHRM3, PPM1H, HTR3A, SHISA9, PPP1R9A, CPLX2, PLCB4, PCLO, ERBB4, FLRT3, PPP1R1B, DLGAP1, DRD2, CACNG4, SHANK2, PFN2, CLIC6, RAB3B, GABRB2, CHRM3, IHH, AQP6, AQP5, AQP2, SLC4A4, LGALS4, EPB41L4B, SHH, KIAA1549, ATP7B, GRB14, IYD, SCN9A, PLC1, DLGAP1, PCDHAC2, PCDHAC1, KCNH2, SLC34A2, SLC2A10, SLC30A2, KCNH8, COBL, ENTPD8, HTR3A, KSR2, GFRA3, MAPK8IP1, SSTR5, SLC9A2, CLDN10, SLC9A4, CLDN3, SLC29A4, CDHR5, CDH16, FREM2, SHANK2, PLEKH2, ADH1C, PALM3, USH1C, LRP4, SLC3A1, CACNA1D, ATP2C2, SLC5A1, SLC6A20, UGT8, ERBB4, FLRT3, GNG4, EPCAM, GPC3, SLITRK6, PRAME, STXB6, EPS8L3, PROM1, DRD2, KIAA0319, CACNG4, FZD8, OPRK1, SORBS2, SYT13, MUC5B, EFR3B, VIL1, IGSF11, CYP2W1, FRAS1, RIMBP2, CNTN1, RGL3, ANKS4B, PLCH1, BMPR1B, SLC28A2, LGR6, TDGF1, MRAP2, ULBP3	241	369	20164	3.8546256	0.002561833	0.001282554	0.001219636
GOTERM_CC_DIRECT	GO:0098978~glutamatergic synapse	16	6.201550388	3.57E-05	CHRM3, PPM1H, HTR3A, SHISA9, PPP1R9A, CPLX2, PLCB4, PCLO, ERBB4, FLRT3, PPP1R1B, DLGAP1, DRD2, CACNG4, SHANK2, PFN2, CLIC6, RAB3B, GABRB2, CHRM3, IHH, AQP6, AQP5, AQP2, SLC4A4, LGALS4, EPB41L4B, SHH, KIAA1549, ATP7B, GRB14, IYD, SCN9A, PLC1, DLGAP1, PCDHAC2, PCDHAC1, KCNH2, SLC34A2, SLC2A10, SLC30A2, KCNH8, COBL, ENTPD8, HTR3A, KSR2, GFRA3, MAPK8IP1, SSTR5, SLC9A2, CLDN10, SLC9A4, CLDN3, SLC29A4, CDHR5, CDH16, FREM2, SHANK2, PLEKH2, ADH1C, PALM3, USH1C, LRP4, SLC3A1, CACNA1D, ATP2C2, SLC5A1, SLC6A20, UGT8, ERBB4, FLRT3, GNG4, EPCAM, GPC3, SLITRK6, PRAME, STXB6, EPS8L3, PROM1, DRD2, KIAA0319, CACNG4, FZD8, OPRK1, SORBS2, SYT13, MUC5B, EFR3B, VIL1, IGSF11, CYP2W1, FRAS1, RIMBP2, CNTN1, RGL3, ANKS4B, PLCH1, BMPR1B, SLC28A2, LGR6, TDGF1, MRAP2, ULBP3	241	366	20164	3.657619663	0.009416411	0.003153619	0.002998913
GOTERM_CC_DIRECT	GO:0005886~plasma membrane	87	33.72093023	6.09E-05	CHRM3, PPM1H, HTR3A, SHISA9, PPP1R9A, CPLX2, PLCB4, PCLO, ERBB4, FLRT3, PPP1R1B, DLGAP1, DRD2, CACNG4, SHANK2, PFN2, CLIC6, RAB3B, GABRB2, CHRM3, IHH, AQP6, AQP5, AQP2, SLC4A4, LGALS4, EPB41L4B, SHH, KIAA1549, ATP7B, GRB14, IYD, SCN9A, PLC1, DLGAP1, PCDHAC2, PCDHAC1, KCNH2, SLC34A2, SLC2A10, SLC30A2, KCNH8, COBL, ENTPD8, HTR3A, KSR2, GFRA3, MAPK8IP1, SSTR5, SLC9A2, CLDN10, SLC9A4, CLDN3, SLC29A4, CDHR5, CDH16, FREM2, SHANK2, PLEKH2, ADH1C, PALM3, USH1C, LRP4, SLC3A1, CACNA1D, ATP2C2, SLC5A1, SLC6A20, UGT8, ERBB4, FLRT3, GNG4, EPCAM, GPC3, SLITRK6, PRAME, STXB6, EPS8L3, PROM1, DRD2, KIAA0319, CACNG4, FZD8, OPRK1, SORBS2, SYT13, MUC5B, EFR3B, VIL1, IGSF11, CYP2W1, FRAS1, RIMBP2, CNTN1, RGL3, ANKS4B, PLCH1, BMPR1B, SLC28A2, LGR6, TDGF1, MRAP2, ULBP3	241	4959	20164	1.467860523	0.016002166	0.004032773	0.003834939
GOTERM_CC_DIRECT	GO:0000785~chromatin	27	10.46511628	2.31E-04	DLX2, DLX6, HNF4G, SIX4, HNF4A, SIX3, ALX1, PRAME, MNX1, HES6, CDX2, DMRT1, DMRT2, HMG2, FOXJ1, DMRT3, FOXN4, ESRG, ETV4, MLX1PL, PAX7, ZNF711, SP9, RCOR2, ZBTB8B, FOXA3, FOXA2, CHRM3, PRKAA2, LRP4, COBL, OPRK1, SORBS2, PPP1R9A, CPLX2, RAP1GAP, MAPK8IP1, PLCB4, MAP2, CKB, KIF1A, BMPR1B, DRD2, SLC34A2, SLC3A1, CDHR5, SLC5A1, SLC28A2, SHANK2	241	1024	20164	2.206091157	0.059367101	0.012239053	0.011638647
GOTERM_CC_DIRECT	GO:0030425~dendrite	16	6.201550388	3.94E-04	CHRM3, PRKAA2, LRP4, COBL, OPRK1, SORBS2, PPP1R9A, CPLX2, RAP1GAP, MAPK8IP1, PLCB4, MAP2, CKB, KIF1A, BMPR1B, DRD2, SLC34A2, SLC3A1, CDHR5, SLC5A1, SLC28A2, SHANK2	241	456	20164	2.935721045	0.099188048	0.017406361	0.016552464
GOTERM_CC_DIRECT	GO:0031526~brush border membrane	6	2.325581395	7.34E-05	SLC34A2, SLC3A1, CDHR5, SLC5A1, SLC28A2, SHANK2	241	60	20164	8.366804979	0.176892457	0.025130063	0.023897267
GOTERM_CC_DIRECT	GO:0045202~synapse	16	6.201550388	7.79E-04	GABRB2, CHRM3, USH1C, OPRK1, SORBS2, HTR3A, SYT13, SHISA9, CPLX2, IGFN1, MAPK8IP1, PCLO, RIMBP2, DLGAP1, KIF1A, DRD2, VIL1, SLC34A2, USH1C, CDHR5, ANKS4B, PLS1	241	487	20164	2.748847632	0.186483709	0.025130063	0.023897267
GOTERM_CC_DIRECT	GO:0005903~brush border	6	2.325581395	8.53E-04	PRKAA2, KLHL14, LRP4, COBL, SORBS2, HTR3A, PPP1R9A, RAP1GAP, MAP2, PPP1R1B, CKB, KIF1A, BMPR1B, SHANK2	241	62	20164	8.096908044	0.202494967	0.025130063	0.023897267
GOTERM_CC_DIRECT	GO:0043025~neuronal cell body	14	5.426356589	0.00106398	CHRM3, SLC9A4, ATP7B, ERBB4, EPCAM, SLC29A4, ATP2C2, CDH16, AQP2, SLC4A4	241	400	20164	2.928381743	0.245805345	0.028195468	0.026812294
GOTERM_CC_DIRECT	GO:0016323~basolateral plasma membrane	10	3.875968992	0.001953788	CHRM3, SLC9A4, ATP7B, ERBB4, EPCAM, SLC29A4, ATP2C2, CDH16, AQP2, SLC4A4	241	233	20164	3.590903425	0.404444222	0.047068525	0.044759503
GOTERM_CC_DIRECT	GO:0014069~postsynaptic density	10	3.875968992	0.004177557	IGSF11, PLCB4, PCLO, FLRT3, LRP4, DLGAP1, SHISA9, DRD2, PPP1R9A, SHANK2	241	261	20164	3.205672406	0.670233857	0.09225439	0.087728703
GOTERM_CC_DIRECT	GO:0044294~dendritic growth cone	3	1.162790698	0.004806516	MAP2, COBL, MAPK8IP1	241	9	20164	27.88934993	0.721070905	0.097978979	0.093172463
GOTERM_CC_DIRECT	GO:0099056~integral component of presynaptic membrane	5	1.937984496	0.006364547	CHRM3, ERBB4, OPRK1, HTR3A, DRD2	241	62	20164	6.74742337	0.815848237	0.120471782	0.114561845
GOTERM_CC_DIRECT	GO:0043679~axon terminus	5	1.937984496	0.00792584	CHRM3, FLRT3, OPRK1, DRD2, NTS	241	66	20164	6.338488621	0.878606199	0.140023181	0.133154119
GOTERM_CC_DIRECT	GO:0030424~axon	11	4.263565891	0.009131057	PCLO, PRKAA2, SCN9A, CNTN1, COBL, HTR3A, SYT13, KIF1A, DRD2, RAP1GAP, PRPH	241	348	20164	2.644679735	0.912037551	0.151233138	0.143814154
GOTERM_CC_DIRECT	GO:0005902~microvillus	5	1.937984496	0.011225025	VIL1, USH1C, ANKS4B, AQP5, PROM1	241	73	20164	5.7306888342	0.949785567	0.173504117	0.164992595
GOTERM_CC_DIRECT	GO:0031514~motile cilium	6	2.325581395	0.011785185	ROPN1B, DNAH2, ZBBX, TEK2, AK7, DNALI1	241	114	20164	4.403581568	0.956787393	0.173504117	0.164992595
GOTERM_CC_DIRECT	GO:0016021~integral component of membrane	81	31.39534884	0.014169187	TMEM45B, GABRB2, ST6GALNAC1, GAL3ST1, GOLIM4, AQP6, KLHDC7A, AQP5, TSPAN12, AQP2, SLC4A4, CLGN, UPK1B, KIAA1549, ATP7B, PCLO, IYD, SCN9A, FAM3D, SLC16A9, PCDHAC2, SYBU, PCDHAC1, KCNH2, SLC34A2, CHST9, CHST6, SLC2A10, SLC30A2, ENTPD8, HTR3A, TM4SF4, SHISA2, SHISA9, SSTR5, SLC9A2, CLDN10, SLC9A4, CLDN3, TMEM213, SLC29A4, CDHR5, CHST4, CDH16, CLRN3, FREM2, SHANK2, PFN2, PRKAA2, DNAJC22, LRP4, SLC3A1, CACNA1D, ATP2C2, VTCN1, SLC5A1, UGT8, FAM171A2, ERBB4, EPCAM, STXB6, PROM1, DRD2, B4GALNT3, KIAA0319, CMT8, DMRT2, MFSD6L, EPHX4, FZD8, OPRK1, KLHL23, LRRC66, IGSF11, GJB1, FRAS1, RNF183, DEGS2, BMPR1B, TDGF1, MRAP2	241	5401	20164	1.254788379	0.977215848	0.197622874	0.187928167
GOTERM_CC_DIRECT	GO:0099055~integral component of postsynaptic membrane	4	1.550387597	0.022803287	FLRT3, OPRK1, HTR3A, DRD2	241	51	20164	6.562199984	0.997785736	0.302143548	0.287321411

GOTERM_CC_DIRECT	GO:0099061~integral component of postsynaptic density membrane	4	1.550387597	0.03042959	CHRM3, ERBB4, SHISA9, CACNG4	241	57	20164	5.871442091	0.99972233	0.383992445	0.36515508
GOTERM_CC_DIRECT	GO:0070062~extracellular exosome	37	14.34108527	0.033330113	CLIC6, RAB3B, GABRB2, SLC3A1, AQP5, SLC5A1, AQP2, SLC4A4, UPK1B, AKR7A3, PCLO, TSPAN8, GNG4, EPCAM, CKB, PROM1, CRYM, TGM3, PLS1, PRPH, SPINK1, HGD, IGFBP2, VPS37D, MUC5B, VIL1, DDH1, ARMC3, GSTA1, CNTN1, SCGB3A1, CDHR5, VWA2, CDH16, CLRN3, FREM2, PFN2, RAB3B, KCNH2, CHGA, BRSK2, SLC2A10, COBL, C9ORF24, SORBS2, ATP2C2, SLC5A1, AQP2, MAPK81P1, ATP7B, CAPNG, KIF1A, DYNC111, GABRB2, CHRM3, ERBB4, HTR3A, SHISA9, SHANK2	241	2217	20164	1.396354462	0.999874478	0.401476356	0.381781289
GOTERM_CC_DIRECT	GO:0048471~perinuclear region of cytoplasm	16	6.201550388	0.03652873	DNAH2, MAP2, DNAH6, TEKT2, DCDC2, KIF1A, TRIM54, DYNC111, SYBU	241	754	20164	1.775449332	0.999947848	0.420874503	0.400227829
GOTERM_CC_DIRECT	GO:0045211~postsynaptic membrane	6	2.325581395	0.040519151		241	158	20164	3.177267714	0.999982637	0.443724291	0.421956684
GOTERM_CC_DIRECT	GO:0005874~microtubule	9	3.488372093	0.041917515		241	326	20164	2.309854135	0.999988203	0.443724291	0.421956684
GOTERM_CC_DIRECT	GO:0030286~dynein complex	3	1.162790698	0.043535213	DNAH2, DNAH6, DNALI1	241	28	20164	8.964433906	0.999992462	0.443724291	0.421956684
GOTERM_CC_DIRECT	GO:0031982~vesicle	6	2.325581395	0.051400377	RAB3B, SLC34A2, LGR6, PROM1, DYNC111, SYBU	241	169	20164	2.970463306	0.999999155	0.50448518	0.47973685
GOTERM_CC_DIRECT	GO:1990357~terminal web	2	0.775193798	0.05811772	COBL, PLS1	241	5	20164	33.46721992	0.999999871	0.514898307	0.489639145
GOTERM_CC_DIRECT	GO:0098982~GABA-ergic synapse	4	1.550387597	0.058316352	GABRB2, PCLO, ERBB4, DRD2	241	74	20164	4.522597286	0.999999878	0.514898307	0.489639145
GOTERM_CC_DIRECT	GO:0044295~axonal growth cone	3	1.162790698	0.058519135	FLRT3, COBL, MAPK81P1	241	33	20164	7.606186345	0.999999885	0.514898307	0.489639145
GOTERM_CC_DIRECT	GO:0016328~lateral plasma membrane	4	1.550387597	0.060233387	GJB1, CLDN3, EPCAM, DRD2	241	75	20164	4.462295989	0.999999929	0.514898307	0.489639145
GOTERM_CC_DIRECT	GO:0005923~bicellular tight junction	5	1.937984496	0.065376459	EPB4114B, CLDN10, CLDN3, POF1B, EPCAM	241	127	20164	3.294017708	0.999999983	0.540881944	0.514348113
GOTERM_CC_DIRECT	GO:0009986~cell surface	13	5.03875969	0.06735511	KCNH2, LRP4, SLC4A4, SHH, CYP2W1, TSPAN8, EPCAM, WIF1, SLITRK6, GPC3, PROM1, TDGF1, CACNG4	241	619	20164	1.757164212	0.999999991	0.540881944	0.514348113
GOTERM_CC_DIRECT	GO:0000139~Golgi membrane	13	5.03875969	0.071522079	CHST9, ST6GALNAC1, CHST6, GAL3ST1, GOLIM4, ATP2C2, RAP1GAP, SHH, ATP7B, PLCE1, CHST4, DRD2, SYBU	241	626	20164	1.737515411	0.999999997	0.557451494	0.530104817
GOTERM_CC_DIRECT	GO:0044326~dendritic spine neck	2	0.775193798	0.08041165	PPP1R1B, PPP1R9A	241	7	20164	23.90515708	1	0.608831066	0.578963882