

Supplementary Figures

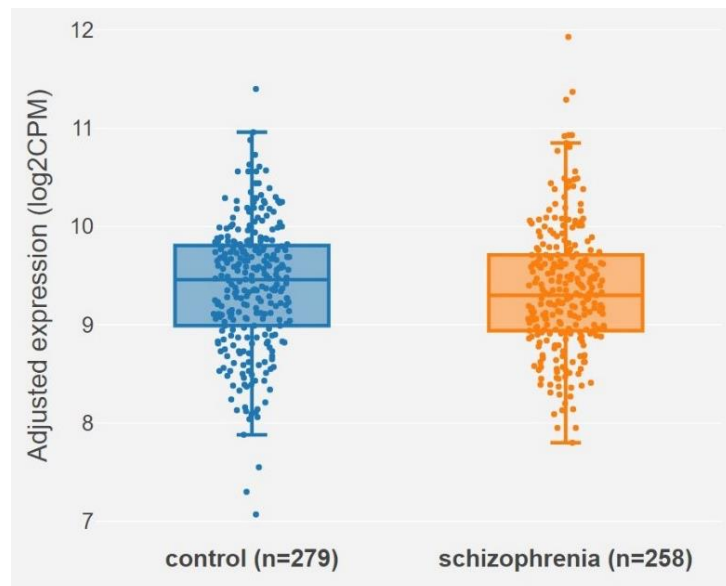


Figure S1. TGF- β 1 expression between schizophrenia patients and controls in the DLPFC.

Post hoc test showed that TGF- β 1 expression in DLPFC was not significantly changed in the SCZ group as compared to the control group ($p > 0.05$) (based on CMC RNAseq data).

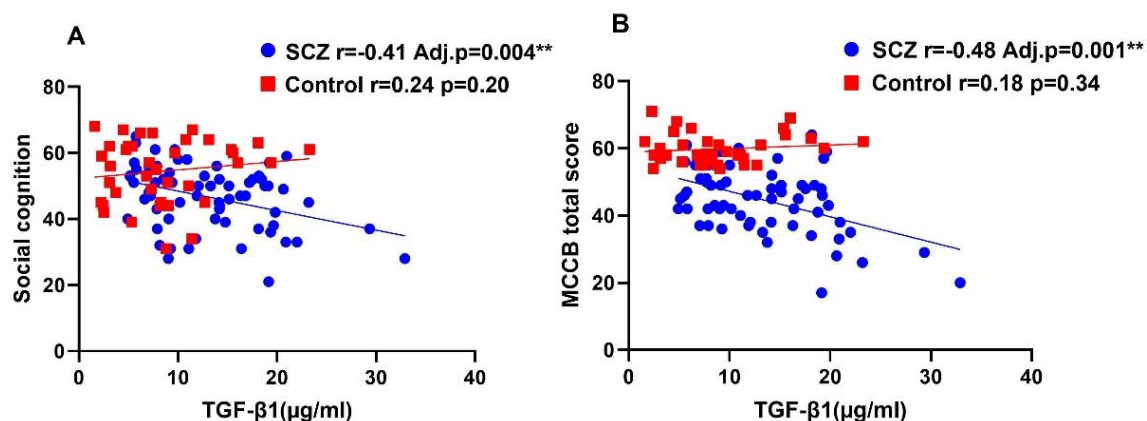


Figure S2. Correlations of TGF- β 1 with MCCB total score and social cognition. A. TGF- β 1 levels were negatively associated with social cognition scores in patients with schizophrenia but not in healthy controls. **B.** TGF- β 1 levels were negatively associated with MCCB total scores in patients with schizophrenia but not in healthy controls. ** adj. $p < 0.01$.

Table S1. Blood RNAseq DEGs

Genes	logFC	t	P.Value	adj.P.Val
TGFB1	0.24466	3.2011	0.0017526	0.026029
TGFBR1	-0.24416	-3.3447	0.0011	0.019168
TGFBR3	-0.45222	-4.0283	9.90E-05	0.0044704
SREBF1	0.23124	3.6089	0.00044986	0.011104
PXN	0.21002	3.1182	0.0022789	0.030937
CSF1	0.23581	3.0153	0.0031345	0.037709
ENG	0.18446	2.9388	0.0039539	0.044091
CCDC117	-0.33974	-7.7609	3.13E-12	4.20E-08
CNOT6L	-0.32846	-6.866	3.13E-10	2.10E-06
FYTTD1	-0.31476	-6.4479	2.49E-09	1.04E-05
FOSB	-0.76268	-6.4041	3.08E-09	1.04E-05
BZW1	-0.28113	-6.3537	3.94E-09	1.06E-05
PTPN4	-0.42287	-6.3071	4.94E-09	1.11E-05
DNAJB9	-0.34962	-6.1367	1.12E-08	2.15E-05
ZNF580	0.3861	6.1037	1.32E-08	2.21E-05
TMEM64	-0.43168	-6.0395	1.79E-08	2.66E-05
ZBTB44	-0.31339	-5.9872	2.29E-08	3.07E-05
AGPS	-0.29044	-5.935	2.93E-08	3.34E-05
PIGK	-0.37905	-5.9307	2.99E-08	3.34E-05
AIDA	-0.31382	-5.8508	4.34E-08	4.35E-05
NRAS	-0.33572	-5.8415	4.54E-08	4.35E-05
MYPOP	0.34748	5.7062	8.51E-08	7.40E-05
CITED4	0.54581	5.6713	9.99E-08	7.40E-05
PDE4D	-0.48785	-5.6622	1.04E-07	7.40E-05
NOL3	0.44433	5.6612	1.05E-07	7.40E-05
RNF14	-0.26626	-5.6611	1.05E-07	7.40E-05
DESI2	-0.28261	-5.5894	1.45E-07	9.76E-05
RAP1B	-0.27661	-5.5251	1.95E-07	0.00012413
FBXO45	-0.29997	-5.5156	2.03E-07	0.00012413
NPIP11	0.57847	5.4899	2.29E-07	0.00012826
TESMIN	0.31469	5.4892	2.29E-07	0.00012826
INSIG1	-0.27472	-5.4566	2.66E-07	0.00014262
NAA30	-0.28067	-5.4092	3.29E-07	0.0001697
NXT2	-0.49213	-5.3988	3.44E-07	0.00017125
CLDN9	0.6294	5.3542	4.20E-07	0.00020153
UHMK1	-0.32817	-5.3149	5.01E-07	0.00023126
UBXN10	-0.57179	-5.3078	5.17E-07	0.00023126

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CYSLTR2	-0.49868	-5.2942	5.49E-07	0.00023773
PRKACB	-0.43368	-5.2654	6.23E-07	0.00024669
F8A2	0.438	5.2571	6.47E-07	0.00024669
TFAM	-0.29478	-5.2541	6.55E-07	0.00024669
RBM7	-0.28495	-5.2507	6.65E-07	0.00024669
ABHD17B	-0.25905	-5.2468	6.77E-07	0.00024669
CMPK1	-0.28779	-5.2458	6.80E-07	0.00024669
CMTR2	-0.3591	-5.2334	7.18E-07	0.00025367
HS2ST1	-0.30863	-5.1788	9.13E-07	0.0003142
SREK1IP1	-0.36241	-5.1561	1.01E-06	0.00033826
MZF1	0.27431	5.1466	1.05E-06	0.00034053
FMC1	0.7909	5.1434	1.07E-06	0.00034053
F8A3	0.32752	5.1014	1.28E-06	0.00039931
SEPTIN11	-0.26475	-5.0868	1.36E-06	0.00041573
ZBTB33	-0.3058	-5.0549	1.56E-06	0.00045868
THAP12	-0.30469	-5.0538	1.57E-06	0.00045868
ATF7-NPFF	0.51151	5.0434	1.64E-06	0.00046675
TM9SF3	-0.21735	-5.0375	1.69E-06	0.00046675
GALNS	0.28001	5.0303	1.74E-06	0.00046675
MSANTD4	-0.26164	-5.0228	1.80E-06	0.00046675
CLIP3	0.46642	5.021	1.81E-06	0.00046675
RIPOR1	0.30775	5.0197	1.82E-06	0.00046675
SHISA8	0.72704	5.014	1.87E-06	0.00046675
LNPK	-0.24414	-5.0125	1.88E-06	0.00046675
SH2D1B	-0.63477	-4.9958	2.02E-06	0.00049154
TRAM1	-0.30023	-4.9919	2.05E-06	0.00049154
CHIC1	-0.34098	-4.9434	2.52E-06	0.00059424
NLGN3	0.4036	4.9275	2.70E-06	0.00062481
UTP23	-0.26542	-4.9151	2.84E-06	0.00062952
TNFSF4	-0.43715	-4.9113	2.89E-06	0.00062952
PIK3R3	-0.43572	-4.9087	2.92E-06	0.00062952
IMPAD1	-0.23554	-4.9077	2.94E-06	0.00062952
SH2D1A	-0.37825	-4.9056	2.96E-06	0.00062952
IMPACT	-0.30293	-4.9026	3.00E-06	0.00062952
UBE2Q2	-0.25493	-4.8907	3.16E-06	0.00064763
SAMD1	0.26498	4.8886	3.18E-06	0.00064763
UBL3	-0.33085	-4.8666	3.49E-06	0.00067805
FBRSL1	0.29083	4.8654	3.51E-06	0.00067805
GABBR1	0.38031	4.8643	3.53E-06	0.00067805
TBL1XR1	-0.26772	-4.8607	3.58E-06	0.00067805
C8orf58	0.30324	4.8605	3.59E-06	0.00067805

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KRTAP5-1	0.72654	4.8481	3.78E-06	0.00070444
TCF7L1	0.40127	4.8379	3.94E-06	0.00072513
FAM209A	0.41051	4.8311	4.06E-06	0.00073291
IKZF2	-0.51915	-4.829	4.09E-06	0.00073291
REST	-0.24308	-4.8074	4.48E-06	0.00079151
ARMC1	-0.27914	-4.8022	4.58E-06	0.00079151
SHFL	0.28831	4.8013	4.60E-06	0.00079151
CYCS	-0.32636	-4.7966	4.69E-06	0.00079675
CASP3	-0.33378	-4.7912	4.80E-06	0.00080489
GPSM1	0.33154	4.7671	5.30E-06	0.00086863
LOC101927837	0.25038	4.767	5.31E-06	0.00086863
STYX	-0.28599	-4.7591	5.48E-06	0.00088715
ZDHHC20	-0.32091	-4.7467	5.77E-06	0.00092052
F8A1	0.2884	4.7445	5.83E-06	0.00092052
OSTM1	-0.32346	-4.7371	6.01E-06	0.00093817
PDCL	-0.21479	-4.7318	6.14E-06	0.00094783
ADAMTS2	1.6564	4.7141	6.61E-06	0.00097538
APPL1	-0.27914	-4.7203	6.44E-06	0.00097538
ISYNA1	0.29883	4.7155	6.57E-06	0.00097538
GMFB	-0.34848	-4.7154	6.58E-06	0.00097538
HSPA13	-0.38843	-4.7047	6.87E-06	0.00098586
PRR14	0.2464	4.6989	7.04E-06	0.00098586
CCSER2	-0.2549	-4.6969	7.10E-06	0.00098586
CCL4	-0.50401	-4.6921	7.24E-06	0.00098586
FAM210A	-0.25938	-4.6906	7.28E-06	0.00098586
NCKAP5L	0.26043	4.6885	7.35E-06	0.00098586
PRRT3	0.26123	4.6869	7.40E-06	0.00098586
DHX40	-0.22749	-4.6867	7.40E-06	0.00098586
INSL3	0.58205	4.6845	7.47E-06	0.00098586
RAP2A	-0.40231	-4.6843	7.48E-06	0.00098586
GNG2	-0.26659	-4.6839	7.49E-06	0.00098586
TNK2	0.29712	4.6585	8.31E-06	0.0010836
NPIPA7	0.29529	4.645	8.79E-06	0.0011347
TIPARP	-0.26234	-4.6354	9.14E-06	0.0011626
RRAS2	-0.35496	-4.6331	9.23E-06	0.0011626
C21orf91	-0.33757	-4.6321	9.27E-06	0.0011626
SF3A2	0.34899	4.6254	9.52E-06	0.0011837
NPIP4	0.537	4.6196	9.75E-06	0.001201
SMAD7	-0.33765	-4.6121	1.01E-05	0.0012273
CD226	-0.3392	-4.6092	1.02E-05	0.0012309
RAB27B	-0.42206	-4.6069	1.03E-05	0.001231

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XRCC3	0.30928	4.6041	1.04E-05	0.0012343
FADS3	0.27009	4.5828	1.13E-05	0.0013346
LOC283710	0.3451	4.574	1.17E-05	0.0013536
NFKBID	0.26895	4.5721	1.18E-05	0.0013536
STK17B	-0.25637	-4.5714	1.19E-05	0.0013536
TTC33	-0.36376	-4.5688	1.20E-05	0.0013536
DHRS12	0.38906	4.5687	1.20E-05	0.0013536
PPP1CB	-0.32611	-4.5584	1.25E-05	0.0013998
NORAD	-0.23657	-4.5538	1.27E-05	0.0014142
REM2	0.44849	4.5482	1.30E-05	0.0014352
TBC1D3H	0.38175	4.5409	1.34E-05	0.0014659
MYCT1	-0.68289	-4.538	1.36E-05	0.0014676
EXOC5	-0.28199	-4.5366	1.37E-05	0.0014676
ZNF213	0.29248	4.5288	1.41E-05	0.0015029
MMD	-0.48452	-4.5164	1.48E-05	0.0015397
VAMP7	-0.26865	-4.5154	1.49E-05	0.0015397
ARL5A	-0.35308	-4.5141	1.50E-05	0.0015397
PDGFD	-0.53547	-4.5138	1.50E-05	0.0015397
ZNF341	0.242	4.5117	1.51E-05	0.0015397
TMEM38B	-0.38833	-4.5112	1.51E-05	0.0015397
TSC22D1	-0.35888	-4.5078	1.53E-05	0.0015494
LRFN1	0.37195	4.5055	1.55E-05	0.0015525
RNF11	-0.42296	-4.5036	1.56E-05	0.0015525
DENND1B	-0.40908	-4.5017	1.57E-05	0.0015529
IPO7	-0.23309	-4.4972	1.60E-05	0.0015696
RNF2	-0.28472	-4.4926	1.63E-05	0.0015872
VIPR1	0.20774	4.4843	1.69E-05	0.0016292
ISCA1	-0.24471	-4.4788	1.73E-05	0.0016542
ZNF865	0.29984	4.4699	1.79E-05	0.0017016
HOOK2	0.23262	4.4662	1.81E-05	0.0017153
AKR1C3	-0.75094	-4.4632	1.84E-05	0.0017234
PIK3R1	-0.22838	-4.4588	1.87E-05	0.0017372
RAB11B	0.26351	4.4578	1.88E-05	0.0017372
CACNA1F	0.3823	4.4525	1.92E-05	0.0017617
STOM	-0.2958	-4.4464	1.96E-05	0.0017818
LARGE2	0.41777	4.4453	1.97E-05	0.0017818
SFN	0.75302	4.4446	1.98E-05	0.0017818
KLHL7	-0.21639	-4.4397	2.02E-05	0.0017996
NPIPA3	0.28093	4.4374	2.04E-05	0.0017996
LYSMD3	-0.4261	-4.4371	2.04E-05	0.0017996
GALNT1	-0.28094	-4.4351	2.05E-05	0.0018022

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TBC1D3D	0.36919	4.431	2.09E-05	0.0018202
P2RY10	-0.28577	-4.426	2.13E-05	0.0018445
FAM229A	0.33462	4.4216	2.17E-05	0.0018651
SH2D3C	0.27282	4.4183	2.20E-05	0.0018723
MTHFD2	-0.32976	-4.4164	2.21E-05	0.0018723
U2AF1L4	0.30539	4.4159	2.22E-05	0.0018723
FBXL16	0.34548	4.412	2.25E-05	0.0018895
SCARF2	0.38734	4.4104	2.27E-05	0.0018898
NUS1	-0.25837	-4.4071	2.30E-05	0.0019024
TMED7	-0.27045	-4.3969	2.39E-05	0.0019689
CD244	-0.28662	-4.3936	2.42E-05	0.0019829
NKAPD1	-0.26129	-4.3895	2.46E-05	0.0020031
ZNF414	0.31049	4.3676	2.68E-05	0.0021714
ZC3H12A	0.24447	4.3658	2.70E-05	0.0021733
PLEKHA1	-0.29621	-4.3625	2.74E-05	0.0021888
ASF1A	-0.26597	-4.3554	2.82E-05	0.0022373
CDK8	-0.21759	-4.3457	2.93E-05	0.0022966
TSN	-0.17552	-4.3451	2.93E-05	0.0022966
ARHGEF12	-0.43149	-4.3443	2.94E-05	0.0022966
SOWAHD	0.34739	4.3359	3.04E-05	0.0023605
IER3IP1	-0.31664	-4.334	3.06E-05	0.0023631
ZNF468	-0.29082	-4.3327	3.08E-05	0.0023631
WNT6	0.49254	4.3275	3.14E-05	0.0023981
LZTFL1	-0.25804	-4.3247	3.18E-05	0.0024108
PYGM	0.30094	4.3222	3.21E-05	0.0024205
GDPD1	-0.36935	-4.3178	3.26E-05	0.0024488
PNRC2	-0.21863	-4.3148	3.30E-05	0.0024639
TBC1D3G	0.37916	4.3132	3.32E-05	0.0024661
CCDC106	0.32964	4.3115	3.35E-05	0.0024667
B3GNT9	0.31026	4.3099	3.37E-05	0.0024667
DCUN1D1	-0.29907	-4.3082	3.39E-05	0.0024667
UBE2V2	-0.2117	-4.3075	3.40E-05	0.0024667
PRSS23	-0.55755	-4.3053	3.43E-05	0.0024748
MOB4	-0.38837	-4.3016	3.48E-05	0.0024904
KLHL15	-0.40055	-4.2999	3.50E-05	0.0024904
TAF13	-0.41903	-4.2996	3.51E-05	0.0024904
CA5BP1	0.33068	4.295	3.57E-05	0.0025225
SYT11	-0.29043	-4.2931	3.60E-05	0.002528
RAB28	-0.21544	-4.2871	3.68E-05	0.0025597
CCDC84	0.30112	4.2863	3.69E-05	0.0025597
NPIP12	0.44676	4.2859	3.70E-05	0.0025597

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VENTX	0.32869	4.2839	3.73E-05	0.0025659
ATAT1	0.2805	4.2811	3.77E-05	0.0025815
ATF1	-0.2396	-4.2737	3.88E-05	0.0026429
PNPLA8	-0.32914	-4.2724	3.90E-05	0.0026435
YWHAQ	-0.21693	-4.2658	4.00E-05	0.0026981
PPM1A	-0.32113	-4.2615	4.07E-05	0.0027117
MIER1	-0.28708	-4.2613	4.07E-05	0.0027117
ARL4C	-0.24304	-4.2584	4.12E-05	0.0027117
TRIM46	0.3275	4.2582	4.12E-05	0.0027117
PPP1R13L	0.30754	4.2581	4.12E-05	0.0027117
SMAD5	-0.29497	-4.2539	4.19E-05	0.0027375
FXYP7	0.4791	4.2525	4.21E-05	0.0027375
ANKRD46	-0.28256	-4.2519	4.22E-05	0.0027375
SMIM14	-0.20085	-4.2507	4.24E-05	0.0027375
SEMA4B	0.29425	4.2413	4.40E-05	0.0028177
UBXN2A	-0.21991	-4.2408	4.41E-05	0.0028177
RBBP9	-0.24646	-4.2341	4.52E-05	0.0028778
KLRB1	-0.62117	-4.2318	4.56E-05	0.0028869
SEC62	-0.2918	-4.2294	4.61E-05	0.0028869
RBM27	-0.29688	-4.2291	4.61E-05	0.0028869
PCNP	-0.25172	-4.2284	4.62E-05	0.0028869
CRTC2	0.21016	4.227	4.65E-05	0.0028897
ZYX	0.37014	4.214	4.89E-05	0.0030104
DCLRE1A	-0.33578	-4.214	4.89E-05	0.0030104
CBFA2T3	0.2874	4.2099	4.97E-05	0.0030441
TBC1D3	0.33093	4.2	5.16E-05	0.0031475
GNPTAB	-0.28099	-4.1989	5.18E-05	0.0031475
LMTK3	0.30567	4.1971	5.22E-05	0.003154
ZFP36	0.35669	4.1959	5.24E-05	0.0031546
STK39	-0.22932	-4.1935	5.29E-05	0.0031694
DR1	-0.18198	-4.1904	5.35E-05	0.0031943
UPRT	-0.21511	-4.1884	5.39E-05	0.0032046
KIAA0895L	0.29817	4.1865	5.43E-05	0.0032128
KLF11	-0.30126	-4.1846	5.47E-05	0.003223
ATP6V0A1	0.26134	4.1825	5.52E-05	0.0032343
PTPN11	-0.2672	-4.1809	5.55E-05	0.0032408
UBQLNL	0.46033	4.1761	5.65E-05	0.003286
MBTPS2	-0.25618	-4.1746	5.69E-05	0.0032904
DENND4A	-0.24628	-4.1716	5.75E-05	0.0033112
ENPP4	-0.46379	-4.1708	5.77E-05	0.0033112
FAM107B	-0.19492	-4.1637	5.93E-05	0.0033875

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KRAS	-0.23532	-4.1626	5.95E-05	0.0033875
PCBP1	0.48204	4.1607	6.00E-05	0.003397
MTPN	-0.25208	-4.1595	6.03E-05	0.0033994
ARRDC1	0.21085	4.1549	6.13E-05	0.0034335
TAF1B	-0.27146	-4.1544	6.14E-05	0.0034335
RLIM	-0.21919	-4.1536	6.16E-05	0.0034335
LRIF1	-0.23865	-4.1509	6.23E-05	0.0034545
WDCP	-0.19628	-4.1496	6.26E-05	0.0034575
CHUK	-0.26716	-4.1438	6.40E-05	0.0035123
DYRK2	-0.22254	-4.1433	6.41E-05	0.0035123
TMEM9B	-0.25681	-4.1364	6.58E-05	0.0035795
CTSK	0.29391	4.1362	6.59E-05	0.0035795
ZNF260	-0.29179	-4.1231	6.92E-05	0.0037216
MELTF-AS1	0.74845	4.1227	6.93E-05	0.0037216
VAMP1	0.26866	4.1218	6.96E-05	0.0037216
PI4K2B	-0.36486	-4.1217	6.96E-05	0.0037216
FBXO8	-0.21248	-4.1191	7.03E-05	0.0037216
YAF2	-0.21358	-4.1173	7.07E-05	0.0037216
BLOC1S6	-0.25157	-4.1172	7.08E-05	0.0037216
MAP3K7CL	-0.56943	-4.1171	7.08E-05	0.0037216
RALA	-0.18667	-4.1166	7.10E-05	0.0037216
GID4	-0.24813	-4.1149	7.14E-05	0.0037304
APOBEC3B	0.5076	4.1118	7.22E-05	0.0037595
RIOK3	-0.24715	-4.1097	7.28E-05	0.0037636
PTCD1	0.24231	4.1095	7.29E-05	0.0037636
ZNF444	0.22552	4.1074	7.35E-05	0.0037789
AASDHPPT	-0.21747	-4.1043	7.43E-05	0.0038089
ZNF579	0.30562	4.1025	7.48E-05	0.0038209
NPIPA2	0.2648	4.0992	7.58E-05	0.0038476
RAB8B	-0.28731	-4.0985	7.60E-05	0.0038476
LRCH4	0.23703	4.0973	7.63E-05	0.0038476
LIMS1	-0.24405	-4.0967	7.65E-05	0.0038476
PAQR3	-0.35783	-4.0948	7.71E-05	0.0038586
NUDT21	-0.19182	-4.0939	7.73E-05	0.0038586
VTA1	-0.20963	-4.0912	7.81E-05	0.0038842
ALDOA	0.41663	4.0895	7.86E-05	0.0038949
KLF2	0.28471	4.0883	7.90E-05	0.0038979
WDR36	-0.24861	-4.0869	7.94E-05	0.0039042
FEM1B	-0.20914	-4.0844	8.01E-05	0.0039268
CMKLR1	-0.41071	-4.0809	8.12E-05	0.0039655
NPIPB15	0.50167	4.076	8.27E-05	0.0040132

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ZNF148	-0.27302	-4.0752	8.30E-05	0.0040132
PNPLA2	0.28023	4.0739	8.34E-05	0.0040132
CD164	-0.24825	-4.0735	8.35E-05	0.0040132
TBC1D3I	0.36523	4.0729	8.37E-05	0.0040132
HOPX	-0.50415	-4.0714	8.42E-05	0.0040216
YDJC	0.24483	4.0621	8.72E-05	0.0041505
GTF2A1	-0.24978	-4.0585	8.84E-05	0.0041907
LTC4S	0.33118	4.0577	8.86E-05	0.0041907
BMI1	-0.27088	-4.0559	8.93E-05	0.0041936
FBRS	0.21926	4.0556	8.93E-05	0.0041936
ANP32E	-0.23685	-4.0546	8.97E-05	0.0041944
SGMS2	-0.41264	-4.0491	9.15E-05	0.0042678
LENG8	0.26497	4.0471	9.22E-05	0.0042778
CNOT7	-0.20187	-4.0466	9.24E-05	0.0042778
PPP1R35	0.34614	4.043	9.37E-05	0.0043211
ZNF14	-0.25388	-4.0367	9.59E-05	0.0044098
HMGN4	-0.21958	-4.034	9.69E-05	0.0044391
SLC39A4	0.29024	4.0305	9.82E-05	0.0044704
LIN52	-0.26002	-4.03	9.84E-05	0.0044704
UTF1	0.55118	4.0278	9.92E-05	0.0044704
CCNC	-0.26148	-4.0276	9.92E-05	0.0044704
SH3BP1	0.31497	4.024	0.00010058	0.0045161
ZMIZ2	0.21744	4.0212	0.00010162	0.0045478
CREM	-0.25753	-4.0104	0.0001058	0.0047193
RAPGEFL1	0.31434	4.0041	0.00010832	0.0048156
RGMA	0.74678	4.003	0.00010877	0.0048196
DUSP2	-0.50959	-3.9983	0.00011069	0.0048697
POT1	-0.23634	-3.9983	0.00011071	0.0048697
INF2	0.29646	3.9976	0.00011099	0.0048697
NR1D2	-0.29579	-3.9947	0.0001122	0.0049066
CRYBG2	0.34315	3.9919	0.00011336	0.0049415
CENPL	-0.29953	-3.9902	0.00011407	0.0049565
ACTA1	0.71485	3.9872	0.00011537	0.004981
POLR2M	-0.29624	-3.9872	0.00011538	0.004981
CCDC126	-0.37468	-3.9862	0.0001158	0.0049817
GNA13	-0.29437	-3.9846	0.0001165	0.0049817
MGRN1	0.28623	3.9846	0.00011651	0.0049817
GPR173	0.70822	3.9831	0.00011714	0.0049817
PTOV1	0.21474	3.9825	0.00011742	0.0049817
C7orf61	0.59624	3.982	0.00011762	0.0049817
MED21	-0.27701	-3.9808	0.00011813	0.0049875

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PPP4R3B	-0.20183	-3.9743	0.00012101	0.0050932
TNPO1	-0.23096	-3.971	0.00012252	0.0051295
TSEN15	-0.19348	-3.9703	0.00012284	0.0051295
LSR	0.30411	3.9699	0.00012302	0.0051295
TBC1D3C	0.33068	3.9683	0.00012377	0.0051342
RCAN1	-0.19716	-3.968	0.0001239	0.0051342
LLCFC1	0.59387	3.9636	0.00012593	0.0051939
RABL3	-0.21592	-3.9622	0.00012659	0.0051939
CCNT1	-0.18477	-3.962	0.00012666	0.0051939
BMT2	-0.29435	-3.9609	0.0001272	0.0051939
CCDC120	0.21188	3.9607	0.00012727	0.0051939
NCOA4	-0.3229	-3.9539	0.00013053	0.0053098
CCDC43	-0.19637	-3.9522	0.00013137	0.0053098
GZMA	-0.60094	-3.9521	0.0001314	0.0053098
ERFL	0.41679	3.9515	0.0001317	0.0053098
ZNF837	0.30083	3.9496	0.00013262	0.0053311
KBTBD6	-0.27249	-3.9445	0.00013514	0.0054162
NPIP13	0.44627	3.9436	0.0001356	0.0054182
UHRF1	0.26053	3.9401	0.00013738	0.0054618
HGD	-0.51988	-3.9391	0.00013785	0.0054618
CNIH1	-0.26819	-3.9388	0.00013804	0.0054618
ENC1	-0.32935	-3.9382	0.00013831	0.0054618
GPR65	-0.21994	-3.9369	0.00013896	0.0054713
PRR5L	-0.31452	-3.9356	0.00013966	0.0054826
SPATC1	0.56959	3.9341	0.00014044	0.0054973
MGAT4A	-0.25014	-3.9329	0.00014105	0.0055049
RCHY1	-0.2336	-3.9309	0.00014207	0.0055223
CDK18	0.30171	3.9305	0.00014232	0.0055223
SSPO	0.34765	3.9277	0.00014379	0.0055617
TMEM143	0.24662	3.9263	0.0001445	0.0055617
COG7	0.20292	3.9262	0.00014457	0.0055617
GZMB	-0.54601	-3.9246	0.00014541	0.0055778
DBF4B	0.2327	3.9225	0.00014654	0.0056053
NDFIP2	-0.41431	-3.9212	0.00014723	0.0056155
KLRD1	-0.45096	-3.9201	0.00014783	0.005617
CD37	0.21934	3.9196	0.0001481	0.005617
NMD3	-0.30866	-3.9166	0.00014974	0.0056633
USP1	-0.25006	-3.9153	0.00015047	0.0056746
GTPBP8	-0.21469	-3.9118	0.00015244	0.0057328
ZNF772	-0.38842	-3.9094	0.00015379	0.0057675
ARRDC3	-0.34377	-3.9085	0.00015426	0.0057692

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TBC1D2	0.24947	3.907	0.00015513	0.0057745
HPGD	-0.34422	-3.9068	0.00015527	0.0057745
ST8SIA6	-0.42878	-3.9011	0.00015851	0.0058631
USP12	-0.23639	-3.9011	0.00015852	0.0058631
WDR12	-0.19395	-3.8947	0.00016227	0.0059852
GUCY1A1	-0.44676	-3.8928	0.00016339	0.0060073
AKAP7	-0.32107	-3.8917	0.00016405	0.0060073
DLG4	0.22052	3.8915	0.00016421	0.0060073
CCNG1	-0.2263	-3.8905	0.00016481	0.0060128
ATG5	-0.22841	-3.8897	0.00016526	0.0060129
PLK1	0.37406	3.8886	0.00016597	0.0060225
PRICKLE3	0.22698	3.8863	0.00016734	0.0060558
FAM98B	-0.20671	-3.8815	0.00017028	0.0061455
SP4	-0.30754	-3.8783	0.00017228	0.0062012
CNTNAP1	0.33166	3.8771	0.00017308	0.0062133
SPIN1	-0.22703	-3.8758	0.00017391	0.006222
TMEM88	0.49352	3.8745	0.00017471	0.006222
ATAD1	-0.23154	-3.8742	0.00017492	0.006222
SLC30A6	-0.17771	-3.8738	0.00017518	0.006222
ENKUR	-0.60382	-3.8707	0.00017717	0.0062762
ZMPSTE24	-0.22899	-3.8661	0.00018013	0.0063642
PRRT2	0.37552	3.8619	0.0001829	0.0064452
ABCA7	0.23863	3.8609	0.00018356	0.0064516
PTPN23	0.23099	3.8585	0.00018522	0.0064928
SELENOT	-0.34984	-3.8561	0.00018685	0.0065254
KCNIP2	0.38581	3.8547	0.00018776	0.0065254
C9orf139	0.30959	3.8543	0.00018802	0.0065254
VWA7	0.36447	3.8542	0.00018814	0.0065254
KIAA1143	-0.21629	-3.8532	0.00018876	0.0065254
DCK	-0.22688	-3.8528	0.00018907	0.0065254
DPY19L1	-0.25666	-3.8512	0.00019015	0.0065461
MRAS	-0.39402	-3.8492	0.00019158	0.0065783
PDIK1L	-0.28596	-3.8474	0.00019282	0.0065883
KBTBD8	-0.36964	-3.8473	0.00019285	0.0065883
CISD2	-0.3242	-3.8451	0.00019445	0.0066099
SDC2	-0.58836	-3.845	0.00019447	0.0066099
LOC728392	0.33877	3.8393	0.00019855	0.0067253
HAVCR2	-0.25418	-3.8383	0.00019926	0.0067253
KCNH3	0.32668	3.8382	0.00019937	0.0067253
SKIL	-0.35585	-3.8373	0.00020003	0.0067259
FBXL17	-0.26359	-3.8368	0.00020039	0.0067259

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CNOT3	0.23712	3.8292	0.00020595	0.0068955
KLRF1	-0.55367	-3.8265	0.00020796	0.0069349
OPTN	-0.36526	-3.8263	0.00020816	0.0069349
BICRA	0.34596	3.8223	0.00021113	0.0070055
UAP1	-0.21684	-3.8221	0.00021132	0.0070055
LOC102724957	1.0092	3.8206	0.00021246	0.0070257
B4GALT6	-0.48416	-3.8193	0.00021345	0.0070411
ZNF24	-0.21242	-3.8174	0.00021496	0.0070737
DLGAP3	0.30987	3.8156	0.00021629	0.0071
ZNF845	-0.27968	-3.8085	0.00022191	0.0072667
AZIN1	-0.24433	-3.8056	0.00022427	0.0073262
STAG3	0.27582	3.802	0.00022719	0.0073989
LMAN1	-0.22487	-3.8015	0.0002276	0.0073989
TRIM59	-0.24136	-3.7963	0.00023192	0.0075211
FAM71D	0.78733	3.7925	0.00023512	0.0076065
SMIM23	0.66966	3.7906	0.00023667	0.0076383
MBD6	0.32435	3.7879	0.00023897	0.0076941
PRNP	-0.19056	-3.7866	0.00024013	0.0077032
C1orf21	-0.43499	-3.7863	0.0002404	0.0077032
PI3	0.58823	3.7758	0.00024964	0.00798
FAM172A	-0.22269	-3.7743	0.00025093	0.0079948
MYNN	-0.31715	-3.7738	0.00025143	0.0079948
MUC1	0.41844	3.7731	0.00025201	0.0079948
WAPL	-0.21372	-3.7726	0.00025251	0.0079948
PBX4	0.26315	3.7709	0.00025407	0.0079948
ABHD13	-0.28709	-3.7703	0.00025457	0.0079948
FBXL3	-0.26616	-3.7699	0.00025496	0.0079948
C2orf69	-0.28589	-3.7695	0.00025534	0.0079948
CPSF1	0.25332	3.7692	0.00025556	0.0079948
PDLIM2	0.19522	3.7687	0.00025605	0.0079948
CDC40	-0.18104	-3.7653	0.00025922	0.0080592
HRH4	-0.56641	-3.7652	0.00025931	0.0080592
PDE5A	-0.37033	-3.7641	0.00026027	0.0080703
STRN4	0.20375	3.7608	0.00026339	0.0081482
TAPBP	0.24373	3.7579	0.00026612	0.0082015
CD69	-0.50142	-3.7577	0.00026634	0.0082015
GRAMD1A	0.23519	3.7556	0.00026831	0.0082433
RGS14	0.20987	3.7538	0.00027001	0.0082719
HDAC10	0.36117	3.7528	0.00027097	0.0082719
CCDC61	0.19291	3.7527	0.00027109	0.0082719
ZNF35	-0.2685	-3.7511	0.00027264	0.0083003

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ADGRG5	-0.33193	-3.7471	0.00027656	0.0083868
CRIP2	0.34908	3.7457	0.00027792	0.0083868
PDLIM5	-0.19313	-3.7457	0.00027795	0.0083868
ZZZ3	-0.25486	-3.7457	0.00027798	0.0083868
PHF12	0.22156	3.7405	0.00028319	0.0085249
FSCN1	0.31844	3.7391	0.0002846	0.0085482
DCUN1D5	-0.25771	-3.7378	0.00028593	0.008553
SYNGAP1	0.26959	3.7377	0.00028604	0.008553
FAM199X	-0.24824	-3.736	0.00028775	0.008585
DDX50	-0.23583	-3.7324	0.00029143	0.00867
ATN1	0.2799	3.7316	0.00029231	0.00867
GLO1	-0.22912	-3.7308	0.00029312	0.00867
TBC1D3F	0.35955	3.7303	0.00029366	0.00867
COPS2	-0.38152	-3.7301	0.00029382	0.00867
PEAK3	0.40189	3.7277	0.00029632	0.0087246
TPMT	-0.24437	-3.727	0.00029708	0.0087276
EPHB6	0.18716	3.7229	0.00030142	0.0088196
SMTN	0.23289	3.7228	0.00030152	0.0088196
PRAM1	0.31633	3.722	0.00030244	0.0088274
NANP	-0.25993	-3.7182	0.00030653	0.0089081
PNN	0.33037	3.7182	0.00030653	0.0089081
PRRC1	-0.21811	-3.717	0.0003078	0.0089254
ARHGAP18	-0.25311	-3.7158	0.00030917	0.008946
TBC1D3K	0.31829	3.714	0.00031112	0.0089831
HACD3	-0.1696	-3.7126	0.00031264	0.0090074
CACNA1H	0.35054	3.7118	0.00031357	0.0090149
RAP1A	-0.21078	-3.7099	0.00031562	0.0090546
LENG9	0.24975	3.7084	0.00031738	0.0090857
ZNF575	0.27756	3.7072	0.00031865	0.0091026
PPP2R2B	-0.40237	-3.7062	0.00031987	0.0091175
ESCO1	-0.23749	-3.7056	0.00032053	0.0091175
EIF5A2	-0.33611	-3.7043	0.00032202	0.0091293
AREG	-0.93134	-3.704	0.00032231	0.0091293
NR3C1	-0.25463	-3.7034	0.00032299	0.0091293
TNFSF12	0.21213	3.7019	0.00032466	0.009143
LYPLA1	-0.26571	-3.7015	0.00032514	0.009143
MYC	0.22879	3.7007	0.00032605	0.009143
SDE2	-0.25937	-3.7006	0.0003262	0.009143
SENP1	-0.17641	-3.7	0.00032694	0.0091449
NCALD	-0.30505	-3.6986	0.00032847	0.0091686
ARL5B	-0.26796	-3.6979	0.00032928	0.009172

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TBC1D3E	0.32885	3.6952	0.00033252	0.009243
ZNF708	-0.33563	-3.6931	0.00033494	0.0092811
ETNK1	-0.32178	-3.6928	0.00033527	0.0092811
SDHD	-0.25546	-3.6899	0.00033876	0.0093313
DTWD2	-0.27447	-3.6896	0.00033909	0.0093313
C12orf29	-0.34888	-3.6896	0.00033917	0.0093313
ZNF316	0.22177	3.6876	0.00034155	0.0093777
NR4A3	-0.73097	-3.684	0.00034583	0.00946
CTDSPL2	-0.21134	-3.6839	0.00034599	0.00946
NKG7	-0.52059	-3.6834	0.00034667	0.00946
MDFIC	-0.28353	-3.6823	0.0003479	0.0094746
MAN1A2	-0.18737	-3.6813	0.0003492	0.0094907
ZNF678	-0.28102	-3.6794	0.00035151	0.0095294
TBPL1	-0.2044	-3.679	0.00035205	0.0095294
NPIPB5	0.46471	3.677	0.00035453	0.0095649
KIAA1614	0.37389	3.6766	0.00035498	0.0095649
P2RY1	-0.59094	-3.6754	0.00035647	0.0095649
RSRC1	-0.22156	-3.6748	0.00035731	0.0095649
CYGB	0.69041	3.6747	0.00035745	0.0095649
SSX2IP	-0.29453	-3.6745	0.00035763	0.0095649
ENPP5	-0.38775	-3.6712	0.00036186	0.0096587
RGS18	-0.46838	-3.6692	0.00036432	0.00969
MEX3C	-0.27095	-3.6691	0.00036448	0.00969
SCRN1	-0.21077	-3.666	0.00036856	0.0097745
RBCK1	0.23259	3.6655	0.00036911	0.0097745
GFM2	-0.18672	-3.6645	0.0003704	0.0097808
MAT2B	-0.18384	-3.6642	0.0003708	0.0097808
TC2N	-0.30788	-3.6623	0.00037334	0.0098285
ABCC4	-0.26551	-3.6612	0.00037477	0.0098388
GNG5	0.37728	3.6609	0.0003752	0.0098388
GNAI3	-0.18248	-3.6601	0.00037615	0.0098445
ZNF426	-0.20415	-3.657	0.0003803	0.0099217
NDFIP1	-0.17909	-3.6568	0.00038058	0.0099217
ZNF322	-0.24988	-3.6559	0.00038174	0.0099326
RNF214	0.18593	3.6539	0.00038442	0.0099656
SPATA7	-0.293	-3.6539	0.00038449	0.0099656
SLC25A34	0.29799	3.6519	0.00038715	0.010015
RIOK2	-0.20484	-3.6513	0.00038798	0.010017
SLC30A1	-0.26434	-3.6445	0.00039737	0.01024
IDUA	0.21425	3.6426	0.00040004	0.010289
LYPD2	-0.79906	-3.6418	0.00040107	0.010296

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CIC	0.23856	3.6408	0.00040254	0.010314
TMED5	-0.22033	-3.6402	0.00040341	0.010317
FAM71F2	0.39254	3.6346	0.00041134	0.010484
P2RY12	-0.55066	-3.6342	0.00041196	0.010484
SHOC2	-0.25001	-3.6339	0.00041231	0.010484
YPEL1	-0.28555	-3.6296	0.00041851	0.010622
SSC5D	0.57802	3.6278	0.00042125	0.010671
SLC5A3	-0.31429	-3.6268	0.0004227	0.010688
FGFBP2	-0.54185	-3.6228	0.00042855	0.010815
F2R	-0.41547	-3.6219	0.00042996	0.010831
ZNF296	0.29504	3.6198	0.00043302	0.010887
DSTN	-0.17415	-3.619	0.00043427	0.010898
NAA50	-0.18942	-3.618	0.00043583	0.010917
NRROS	0.2011	3.6158	0.00043914	0.010964
CD2AP	-0.33122	-3.6157	0.00043935	0.010964
ZFP30	-0.34118	-3.615	0.00044031	0.010968
GCLM	-0.20136	-3.6099	0.00044827	0.011104
PIANP	0.39744	3.6098	0.00044841	0.011104
TWSG1	-0.30405	-3.6097	0.00044852	0.011104
CLCN3	-0.19813	-3.6089	0.0004499	0.011104
RO60	-0.23841	-3.6062	0.00045401	0.011132
FAT4	-0.86351	-3.606	0.00045438	0.011132
ICE2	-0.19813	-3.606	0.0004544	0.011132
ZSWIM1	0.19222	3.6055	0.00045517	0.011132
CCDC6	-0.15306	-3.6055	0.0004552	0.011132
ANO8	0.279	3.604	0.00045746	0.011167
SLC1A2	-0.68563	-3.6007	0.00046288	0.011279
RBM3	-0.26008	-3.5987	0.00046606	0.011324
ALPK3	0.44703	3.5984	0.00046643	0.011324
EPHX1	0.17795	3.5971	0.00046861	0.011357
SMIM13	-0.21096	-3.5958	0.00047071	0.011387
CAMTA2	0.18723	3.5943	0.00047312	0.011425
ARHGAP45	0.18159	3.5936	0.00047438	0.011428
NUDT15	-0.26468	-3.5932	0.00047495	0.011428
FGFBP3	0.31598	3.5894	0.00048134	0.011543
FAM209B	0.34072	3.5893	0.00048146	0.011543
C8orf82	0.21765	3.5888	0.00048235	0.011544
SLC30A4	-0.266	-3.5854	0.00048791	0.011637
RBPJ	-0.26023	-3.5853	0.00048817	0.011637
HCFC2	-0.22485	-3.5849	0.00048886	0.011637
SLBP	-0.16143	-3.5827	0.00049264	0.011707

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POU6F1	0.27255	3.5756	0.00050485	0.011975
PYHIN1	-0.29838	-3.5738	0.00050798	0.012017
MBNL2	-0.32235	-3.5735	0.00050841	0.012017
PLEC	0.23482	3.5715	0.00051207	0.012083
ZBTB10	-0.29246	-3.5706	0.00051359	0.012097
SEH1L	-0.16366	-3.57	0.0005146	0.0121
RRS1	0.26231	3.5686	0.00051721	0.012122
DENND6A	-0.17551	-3.5685	0.00051735	0.012122
SLC10A7	-0.18732	-3.5674	0.00051922	0.012145
CALM2	-0.27979	-3.5669	0.00052022	0.012147
IL5RA	-0.50113	-3.5663	0.00052117	0.012148
RCN3	0.39867	3.5655	0.00052268	0.012162
CPNE3	-0.18419	-3.5647	0.0005242	0.012176
C10orf105	0.31873	3.5605	0.00053173	0.012313
ZNF615	-0.22331	-3.5604	0.00053192	0.012313
GPAM	-0.32481	-3.5592	0.00053419	0.012344
HAUS2	-0.17716	-3.5582	0.00053605	0.012366
SELENOF	-0.2362	-3.5577	0.00053696	0.012366
DNM1	0.31605	3.5553	0.00054142	0.012447
FAM155B	-0.71847	-3.5508	0.00054979	0.012618
DLGAP4	0.16212	3.5475	0.00055607	0.01274
POLR2A	0.34371	3.5425	0.00056575	0.01294
RNF141	-0.27135	-3.5404	0.00056971	0.013008
MBNL1	-0.27148	-3.538	0.00057444	0.013054
MRPL30	-0.25943	-3.5375	0.00057537	0.013054
EREG	-0.7815	-3.5375	0.00057541	0.013054
KLHL5	-0.2286	-3.5374	0.00057559	0.013054
CGRRF1	-0.34918	-3.5364	0.00057764	0.013078
COQ10B	-0.25736	-3.5334	0.0005835	0.013189
NIPA2	-0.17387	-3.5329	0.00058464	0.013192
RSL24D1	-0.54752	-3.5321	0.00058624	0.013206
CCT2	-0.24349	-3.531	0.00058834	0.013231
LAMA5	0.38048	3.5287	0.00059303	0.013314
KIF2A	-0.19982	-3.5278	0.00059498	0.013336
OSCAR	0.30022	3.5241	0.00060249	0.013467
MLF1	-0.69179	-3.5239	0.00060284	0.013467
TBC1D19	-0.31145	-3.5218	0.00060715	0.013527
BMPR2	-0.22215	-3.5216	0.00060752	0.013527
SPHK2	0.17509	3.5206	0.00060974	0.013554
TLR9	0.42578	3.5199	0.00061108	0.013561
GLI4	0.20708	3.519	0.000613	0.013581

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PLIN2	-0.19949	-3.5154	0.00062058	0.013708
CHRNA10	0.29721	3.5152	0.00062094	0.013708
NHLH1	0.44602	3.5141	0.00062331	0.013708
TNFSF13	0.25678	3.514	0.00062356	0.013708
ITM2A	-0.32666	-3.5139	0.00062385	0.013708
DBT	-0.19927	-3.5131	0.00062558	0.013714
SLC7A9	0.58741	3.5128	0.00062617	0.013714
BLM	-0.23458	-3.5122	0.00062734	0.013718
PAFAH1B2	-0.22217	-3.5107	0.00063063	0.013767
URI1	-0.16396	-3.5095	0.00063326	0.013802
STK26	-0.22855	-3.5088	0.00063475	0.013812
FABP6	0.66832	3.5082	0.00063596	0.013816
ELOVL6	-0.31416	-3.5076	0.0006374	0.013825
CDKN2AIP	-0.18914	-3.506	0.00064089	0.013863
CADM4	0.26555	3.5054	0.00064218	0.013863
ACP6	0.18944	3.5051	0.00064279	0.013863
SHLD2	-0.23371	-3.5049	0.00064327	0.013863
KCNC3	0.30606	3.5036	0.00064606	0.013901
LPAR2	0.32302	3.5029	0.00064766	0.013913
NPIPA5	0.20396	3.5008	0.00065222	0.013988
CRABP2	0.33542	3.5	0.00065397	0.014003
THAP5	-0.29305	-3.4984	0.00065753	0.014056
SLC25A30	-0.19834	-3.498	0.00065852	0.014056
TMEM68	-0.227	-3.4942	0.0006671	0.014217
RC3H2	-0.16939	-3.4923	0.00067141	0.014286
WFIKKN1	0.43792	3.4915	0.00067321	0.014301
LOC100129697	0.40656	3.4907	0.00067512	0.014319
GMCL1	-0.2337	-3.4881	0.00068092	0.01442
PIP5K1C	0.17068	3.4847	0.00068898	0.014558
BAG2	-0.25928	-3.4844	0.00068961	0.014558
PTCH2	0.35116	3.4835	0.00069161	0.014577
ZNF597	-0.20313	-3.4801	0.00069972	0.014725
CRK	-0.24089	-3.4796	0.00070091	0.014727
PAM16	0.33169	3.479	0.00070237	0.014734
SCAMP1	-0.22687	-3.4749	0.00071224	0.014913
CORO7	0.21133	3.4745	0.00071312	0.014913
CUL4B	-0.19519	-3.4739	0.00071459	0.014921
DEK	-0.2335	-3.4716	0.00072026	0.015011
KLHL28	-0.28296	-3.4712	0.00072114	0.015011
HSF4	0.30724	3.4692	0.000726	0.015074
RBM15	-0.17156	-3.469	0.00072643	0.015074

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DBF4	-0.18904	-3.4673	0.00073081	0.015108
RFESD	-0.46026	-3.4671	0.00073117	0.015108
ATF2	-0.23214	-3.4664	0.00073295	0.015108
S1PR3	0.35328	3.4664	0.00073297	0.015108
CEP78	-0.28467	-3.4661	0.00073377	0.015108
MROH6	0.32291	3.4656	0.00073479	0.015108
BTBD2	0.18669	3.4643	0.00073814	0.015149
TICAM1	0.20564	3.4639	0.00073904	0.015149
FAM102B	-0.22777	-3.4613	0.00074576	0.015263
GFPT1	-0.16384	-3.4605	0.00074767	0.015279
RHOBTB3	-0.37398	-3.4591	0.00075133	0.01533
N4BP2	-0.31731	-3.4584	0.00075295	0.01534
ABCE1	-0.21124	-3.458	0.00075412	0.015341
FOXP4	0.24441	3.4557	0.00075995	0.015436
MRPS35	-0.19234	-3.4542	0.00076372	0.015489
LIPE	0.20834	3.4527	0.00076764	0.015545
NPIP3	0.41187	3.4504	0.00077351	0.01564
SHC2	0.75184	3.4494	0.00077621	0.015671
TAF1A1	-0.60616	-3.4477	0.00078066	0.015735
CRYZ	-0.28273	-3.4473	0.00078171	0.015735
C3orf38	-0.23481	-3.4463	0.00078426	0.015763
TMTC3	-0.31211	-3.4428	0.00079362	0.015887
POC1B	-0.20307	-3.4427	0.00079383	0.015887
SRSF3	-0.15177	-3.4427	0.00079399	0.015887
SMIM15	-0.20981	-3.4414	0.00079728	0.015922
ARHGEF1	0.18846	3.4411	0.00079812	0.015922
NEK7	-0.37244	-3.4357	0.00081272	0.016189
CCDC127	-0.15071	-3.4346	0.00081578	0.016226
RNASEK	0.26969	3.4332	0.00081962	0.016247
H2AB1	0.41633	3.433	0.00082002	0.016247
ITCH	-0.18984	-3.4329	0.00082043	0.016247
EIF3L	-0.21078	-3.432	0.00082287	0.016248
CNKSR1	0.29395	3.432	0.00082294	0.016248
TBX6	0.34985	3.4298	0.00082911	0.016346
TSNARE1	0.19687	3.4293	0.0008305	0.016349
THNSL1	-0.3045	-3.4273	0.00083587	0.016431
KLC2	0.20567	3.4262	0.00083906	0.01647
PURA	-0.19209	-3.4246	0.00084356	0.01653
SLC16A7	-0.3148	-3.4242	0.00084467	0.01653
G2E3	-0.26963	-3.4238	0.00084583	0.01653
PPP4R2	-0.29128	-3.4233	0.00084732	0.016535

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CXCL1	0.38497	3.4226	0.00084937	0.016551
OSBPL8	-0.38346	-3.4205	0.00085533	0.016625
MTF2	-0.18789	-3.4204	0.00085564	0.016625
ACER3	-0.23274	-3.4199	0.00085689	0.016625
FKBP6	0.39618	3.4191	0.00085936	0.016644
WHRN	0.34999	3.4184	0.00086127	0.016644
COMMD2	-0.18731	-3.4183	0.00086156	0.016644
RAVER1	0.28192	3.4158	0.00086877	0.016759
CRIP1	-0.24103	-3.4144	0.00087295	0.016779
ETFA	-0.25532	-3.4141	0.00087361	0.016779
GUCA1B	0.26078	3.4133	0.00087597	0.016779
NUDCD1	-0.30337	-3.4132	0.00087638	0.016779
CEBPG	-0.17437	-3.4127	0.00087795	0.016779
ZDHHC2	-0.31152	-3.4125	0.00087853	0.016779
COL6A1	0.49141	3.4125	0.00087856	0.016779
EGR1	0.42683	3.4117	0.00088075	0.016797
TUBA4B	0.39023	3.411	0.00088295	0.016804
SERINC1	-0.20534	-3.4107	0.00088361	0.016804
GNPNAT1	-0.22873	-3.4081	0.00089142	0.016928
TWISTNB	-0.2226	-3.4074	0.00089356	0.016945
DBN1	0.22043	3.406	0.00089761	0.016998
MAPK6	-0.22011	-3.4051	0.00090045	0.017027
DIMT1	-0.15273	-3.4034	0.00090556	0.0171
C9orf85	-0.20224	-3.4029	0.00090701	0.017103
NPIPA1	0.19359	3.4019	0.00091001	0.017136
NPDC1	0.38059	3.4013	0.00091196	0.017148
FAM217B	-0.22423	-3.3998	0.00091645	0.0172
TSPYL2	0.22219	3.3995	0.00091725	0.0172
IDE	-0.16752	-3.3987	0.00091978	0.0172
PRAF2	0.24542	3.3987	0.00091983	0.0172
NSL1	-0.18838	-3.3973	0.00092425	0.017259
PAQR6	0.43012	3.3965	0.00092647	0.017276
B3GNT8	0.33957	3.3935	0.00093592	0.017426
CARMIL2	0.19393	3.3931	0.00093709	0.017426
OSTC	-0.3514	-3.3911	0.00094333	0.017517
FBXO28	-0.15811	-3.3899	0.000947	0.017561
NEDD1	-0.22074	-3.3891	0.00094973	0.017588
ATE1	-0.21309	-3.3871	0.00095588	0.017673
ZBTB41	-0.36904	-3.3868	0.00095697	0.017673
LNX2	-0.22316	-3.3857	0.00096047	0.017713
NTNG2	0.38771	3.3836	0.00096733	0.017815

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CACNA1A	0.34567	3.3821	0.00097218	0.01788
CEP170B	0.31407	3.3805	0.00097722	0.017948
FEZ1	-0.42645	-3.3792	0.00098137	0.018
OIP5-AS1	-0.16306	-3.376	0.0009919	0.018133
BLOC1S5	-0.22544	-3.3758	0.00099266	0.018133
PSAT1	-0.29446	-3.3758	0.00099268	0.018133
BTG1	-0.16935	-3.3737	0.00099937	0.01823
EIF4E	-0.1817	-3.3723	0.0010042	0.018294
OTX1	0.52835	3.3708	0.0010093	0.01835
SP2	0.21512	3.3705	0.00101	0.01835
CASTOR1	0.33942	3.369	0.0010151	0.018417
ABHD10	-0.17916	-3.3679	0.0010188	0.018459
NFYB	-0.29173	-3.3672	0.0010214	0.018482
LOC105375589	-0.64533	-3.3663	0.0010242	0.018503
KCND1	0.33448	3.366	0.0010253	0.018503
ALDH5A1	-0.24459	-3.3648	0.0010294	0.018551
TUBG2	0.20194	3.3641	0.0010317	0.018568
OR52I1	0.65969	3.3629	0.0010359	0.018592
ZNF628	0.22304	3.3625	0.0010372	0.018592
NPIP2	0.4026	3.3625	0.0010372	0.018592
BNIP3L	-0.25214	-3.36	0.0010458	0.018652
SF3B4	0.18684	3.36	0.0010459	0.018652
ZNF614	-0.23101	-3.36	0.001046	0.018652
ELMOD2	-0.22005	-3.3599	0.0010461	0.018652
SLC25A29	0.43891	3.3588	0.0010499	0.018695
MINK1	0.16065	3.3583	0.0010519	0.018705
MYCBP	-0.17803	-3.3574	0.0010549	0.018731
H1-7	0.64762	3.357	0.0010564	0.018731
WAS	0.25408	3.3564	0.0010584	0.018731
FBXW11	-0.15816	-3.3562	0.0010589	0.018731
ADCK1	0.22156	3.3557	0.001061	0.018735
DNAJB14	-0.29982	-3.3554	0.0010619	0.018735
HMGB1	-0.20998	-3.3535	0.0010685	0.018804
YTHDF3	-0.23039	-3.3535	0.0010686	0.018804
TRUB1	-0.30367	-3.3527	0.0010714	0.018827
AMD1	-0.18916	-3.3522	0.0010731	0.018834
ZSWIM9	0.30778	3.3501	0.0010805	0.018939
SCAF1	0.22147	3.3482	0.0010874	0.019018
MIS12	-0.17462	-3.3481	0.0010879	0.019018
ERLEC1	-0.19451	-3.3463	0.0010941	0.019102
GPR82	-0.50123	-3.3443	0.0011016	0.019168

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TFDP2	-0.20093	-3.3441	0.0011022	0.019168
GRHL1	-0.50931	-3.3397	0.0011184	0.019404
YES1	-0.32762	-3.3396	0.0011186	0.019404
NOL4L	0.17966	3.3385	0.0011227	0.01945
UBE2E3	-0.16836	-3.338	0.0011245	0.019456
ADGRE1	-0.36154	-3.337	0.0011283	0.019497
GPBP1	-0.17861	-3.3344	0.0011378	0.019636
EIF4EBP2	-0.17089	-3.3324	0.0011453	0.019721
DPH3	-0.2151	-3.3318	0.0011476	0.019721
SLAIN2	-0.17501	-3.3316	0.0011485	0.019721
AKAP5	-0.30847	-3.3312	0.0011501	0.019721
TP53RK	-0.18299	-3.3312	0.0011501	0.019721
KDM6B	0.34108	3.3308	0.0011516	0.019722
NDC1	-0.18013	-3.3301	0.0011543	0.019725
PTER	-0.20766	-3.3295	0.0011563	0.019725
SERP2	-0.62757	-3.3293	0.0011573	0.019725
PRELID3B	-0.15813	-3.3292	0.0011577	0.019725
ALOX12	0.19594	3.3264	0.0011681	0.019877
PRF1	-0.39557	-3.3233	0.0011804	0.02006
SUSD1	-0.18486	-3.3229	0.0011819	0.020061
TSC22D4	0.19706	3.3213	0.0011879	0.020138
FBXL8	0.21135	3.3207	0.0011903	0.020152
ZBTB6	-0.25109	-3.3189	0.0011972	0.020244
AP5M1	-0.16281	-3.3185	0.0011988	0.020246
CBY1	0.20339	3.3172	0.001204	0.020293
RAC3	0.34971	3.317	0.0012046	0.020293
LINGO3	0.23563	3.3145	0.0012147	0.020395
OXCT2	0.6269	3.314	0.0012166	0.020395
GNPDA2	-0.26294	-3.3136	0.0012181	0.020395
UCHL1	0.75963	3.3133	0.0012194	0.020395
OBSCN	0.30499	3.3133	0.0012196	0.020395
A1BG	0.72361	3.3128	0.0012215	0.020395
DUS3L	0.20648	3.3126	0.0012222	0.020395
SOCS2	-0.20648	-3.3125	0.0012229	0.020395
RPIA	-0.19196	-3.3117	0.0012259	0.020421
NPIP8	0.35141	3.3105	0.0012307	0.020475
BLZF1	-0.19533	-3.3097	0.0012339	0.020504
RGL3	0.45956	3.3075	0.0012427	0.020624
MSANTD3	-0.22724	-3.3071	0.0012444	0.020626
LRRRC58	-0.2016	-3.3058	0.0012499	0.020692
NRM	0.20948	3.3012	0.0012688	0.020959

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MOSPD1	-0.21768	-3.3011	0.0012692	0.020959
MFAP3L	-0.43156	-3.2988	0.0012785	0.021087
MIER3	-0.33107	-3.2983	0.0012808	0.0211
CRIM1	-0.28839	-3.2971	0.0012859	0.021158
SPEG	0.34526	3.2951	0.0012944	0.021271
RNF138	-0.23684	-3.2942	0.001298	0.021304
PPP1R2	-0.15275	-3.292	0.0013071	0.021425
BORCS7	-0.36312	-3.2917	0.0013085	0.021425
GFOD1	-0.28222	-3.2909	0.0013121	0.021438
ARSK	-0.2976	-3.2907	0.0013127	0.021438
CCDC91	-0.21393	-3.2904	0.0013141	0.021438
USP38	-0.19755	-3.288	0.0013245	0.021581
EEA1	-0.30097	-3.2866	0.0013306	0.021655
TIGIT	-0.28227	-3.2855	0.0013354	0.021707
LMBRD2	-0.30355	-3.2851	0.0013371	0.021707
CLC	-0.68872	-3.2818	0.0013513	0.021912
ZNF780A	-0.2156	-3.2809	0.0013552	0.021948
CCND1	0.31587	3.2802	0.0013585	0.021949
ZNF639	-0.18571	-3.2802	0.0013586	0.021949
SGPP1	-0.25108	-3.2798	0.0013602	0.021949
RAD18	-0.16223	-3.2793	0.0013623	0.021957
REXO5	-0.42365	-3.2745	0.0013838	0.022257
CFAP97	-0.26088	-3.2741	0.0013858	0.022257
SLC39A6	-0.18493	-3.274	0.0013859	0.022257
FMNL1	0.21058	3.2691	0.0014084	0.022592
TERT	0.65057	3.267	0.0014179	0.022716
CLDN7	0.37525	3.2641	0.0014315	0.022908
PLXNA3	0.23997	3.2619	0.0014414	0.023039
NUMBL	0.22257	3.2609	0.0014465	0.023092
ZBTB21	-0.24018	-3.2599	0.0014508	0.023134
UBLCP1	-0.17706	-3.2591	0.0014547	0.023168
MIGA1	-0.24018	-3.257	0.0014646	0.023298
SLC35D1	-0.18715	-3.2517	0.0014901	0.023669
PLA2G4B	0.62853	3.2514	0.0014915	0.023669
PCSK4	0.33179	3.2501	0.0014978	0.023705
RYBP	-0.22531	-3.2498	0.0014993	0.023705
LRP5	0.31466	3.2495	0.0015005	0.023705
CNN2	0.22098	3.2495	0.0015007	0.023705
ERGIC2	-0.23597	-3.2486	0.0015047	0.023739
SPAST	-0.22126	-3.2472	0.0015117	0.023792
LRWD1	0.25229	3.2469	0.001513	0.023792

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NFIC	0.24844	3.2469	0.0015134	0.023792
SLC4A4	-0.55728	-3.2457	0.0015188	0.02385
ZNF785	0.18647	3.2453	0.0015211	0.023858
IGSF8	0.18322	3.2434	0.0015305	0.023978
TBC1D15	-0.19356	-3.2425	0.0015346	0.024013
SNHG3	0.15809	3.2419	0.0015378	0.024035
ADORA2A	0.30788	3.2408	0.0015434	0.024095
FAM204A	-0.15799	-3.2386	0.0015544	0.024214
TMEM150B	0.29898	3.2384	0.0015554	0.024214
MBOAT4	0.46173	3.2382	0.0015565	0.024214
SLC22A31	0.77788	3.2367	0.0015638	0.024285
ZHX1	-0.21923	-3.2365	0.0015646	0.024285
PARP11	-0.17821	-3.2346	0.0015746	0.024412
TMEM167A	-0.20395	-3.2337	0.0015788	0.024449
KBTBD3	-0.35198	-3.2303	0.0015962	0.024676
MED11	0.17856	3.23	0.0015978	0.024676
NEK1	-0.23378	-3.2298	0.001599	0.024676
KLHDC7A	-0.98987	-3.2287	0.0016043	0.024715
GRN	0.27808	3.2286	0.0016052	0.024715
SHKBP1	0.26455	3.2282	0.0016073	0.024719
KLRG1	-0.33936	-3.2268	0.0016143	0.024779
NPIP6	0.30857	3.2267	0.0016149	0.024779
TSC22D3	-0.27209	-3.2263	0.0016171	0.024784
TCEA2	0.17653	3.2254	0.0016218	0.024828
GRID2IP	0.39342	3.2248	0.0016246	0.024842
TENT5C	-0.36727	-3.2236	0.0016308	0.024893
PEX2	-0.22023	-3.2233	0.0016324	0.024893
ANKS3	0.2037	3.2231	0.0016335	0.024893
ERAP1	-0.20973	-3.2219	0.0016399	0.024962
FCHO1	0.20286	3.2209	0.0016451	0.025
SNX24	-0.2534	-3.2207	0.0016462	0.025
ENOPH1	-0.16363	-3.2204	0.0016479	0.025
RBP2	0.65668	3.2192	0.0016541	0.025065
BPGM	-0.49966	-3.217	0.001666	0.025206
MACIR	-0.18868	-3.2168	0.0016671	0.025206
SCP2	-0.18699	-3.2161	0.0016705	0.025229
RAD51-AS1	0.25026	3.2147	0.0016785	0.025294
TMEM238	0.35809	3.2146	0.0016786	0.025294
BTF3L4	-0.20342	-3.2143	0.0016806	0.025296
HBP1	-0.19303	-3.213	0.0016876	0.025373
CMTM7	0.15967	3.2117	0.0016945	0.025447

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SLC23A2	0.2105	3.2113	0.0016965	0.025449
NCDN	0.16554	3.2098	0.001705	0.025548
CXCR6	-0.40029	-3.2092	0.0017079	0.025559
C6orf226	0.24804	3.2089	0.0017095	0.025559
GSKIP	-0.31632	-3.2063	0.0017239	0.025745
CPAMD8	0.25989	3.2054	0.0017291	0.025794
ALAS1	0.15533	3.2021	0.001747	0.026006
H2BC15	-0.34307	-3.2021	0.0017472	0.026006
KIAA0319	0.40472	3.2014	0.0017514	0.026029
SLC30A9	-0.18881	-3.2007	0.0017551	0.026038
PUM2	-0.17456	-3.1998	0.00176	0.026081
CDKL1	-0.37299	-3.1987	0.0017662	0.026144
ST6GALNAC2	0.36853	3.1967	0.0017776	0.026284
C19orf54	0.19899	3.1949	0.0017879	0.026408
SEMA4A	0.27746	3.1931	0.0017981	0.026529
SESN3	-0.25517	-3.1899	0.0018165	0.02677
ZNF566	-0.22176	-3.1886	0.0018241	0.026833
ARHGAP1	0.17496	3.1885	0.0018247	0.026833
CAPS	0.19666	3.1854	0.0018428	0.027042
STAG2	-0.2362	-3.1852	0.0018441	0.027042
DDTL	0.19017	3.185	0.001845	0.027042
TNK1	0.27834	3.1842	0.0018497	0.027082
QRICH2	0.23752	3.1803	0.001873	0.027339
RHOA	-0.25522	-3.1803	0.0018732	0.027339
COX7A2L	-0.34968	-3.1797	0.0018767	0.027339
BORCS8	0.18996	3.1796	0.0018775	0.027339
ATP9A	-0.32088	-3.1794	0.0018782	0.027339
CARD14	0.32015	3.1788	0.0018818	0.027339
ERCC4	-0.20828	-3.1787	0.0018828	0.027339
KLF9	-0.27023	-3.1784	0.0018844	0.027339
PRXL2C	-0.19051	-3.178	0.0018865	0.027339
MEIS1	-0.38344	-3.1779	0.0018876	0.027339
PPP1R16A	0.23382	3.176	0.0018987	0.027469
KIF5B	-0.24392	-3.1747	0.0019066	0.027555
ZNF184	-0.19893	-3.1734	0.0019147	0.027604
BOLA2	-0.39273	-3.1731	0.0019161	0.027604
SLC9A1	0.22485	3.1731	0.0019162	0.027604
EHD2	0.47692	3.1719	0.0019235	0.02768
ZNF816	-0.2634	-3.1706	0.0019316	0.027747
DIPK2A	-0.21986	-3.1703	0.0019337	0.027747
SIKE1	-0.18288	-3.1701	0.0019344	0.027747

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SOCS4	-0.21575	-3.169	0.0019412	0.027802
H1-10	0.20725	3.1688	0.0019424	0.027802
SRSF5	0.18464	3.1685	0.0019445	0.027803
CHCHD4	-0.18344	-3.167	0.001954	0.027908
UCKL1	0.16316	3.1663	0.0019579	0.027935
TXNIP	-0.17351	-3.1656	0.0019622	0.027967
ABHD8	0.19206	3.165	0.0019661	0.027992
IFIT1B	-0.71578	-3.1642	0.0019714	0.027993
RPH3AL	0.30706	3.1639	0.0019731	0.027993
COPS8	-0.18065	-3.1637	0.0019743	0.027993
MAP3K11	0.20868	3.1637	0.0019745	0.027993
NOTCH2NLA	-0.32704	-3.1633	0.0019771	0.028
FAM13B	-0.16978	-3.1624	0.0019824	0.02804
TRPV1	0.17004	3.1621	0.0019841	0.02804
GGN	0.47411	3.1601	0.0019968	0.02819
LRRC37A3	0.28352	3.1594	0.0020011	0.028221
IPP	-0.18729	-3.1589	0.0020048	0.028244
DCAF10	-0.17569	-3.158	0.0020104	0.028293
GSTO2	0.23723	3.1557	0.0020252	0.028447
ELOVL7	-0.4759	-3.1556	0.0020256	0.028447
ABCB1	-0.2865	-3.155	0.0020296	0.028474
ZNF385A	0.26306	3.1522	0.0020475	0.028673
PIK3CB	-0.17151	-3.1521	0.0020481	0.028673
OR2H2	0.64536	3.1516	0.0020511	0.028686
HPRT1	-0.20791	-3.15	0.0020615	0.028801
UST	-0.23407	-3.1496	0.0020641	0.028807
ERMP1	-0.20395	-3.1482	0.0020733	0.028893
ARPC1B	0.20005	3.148	0.0020745	0.028893
INAFM1	0.25701	3.1442	0.0020996	0.029212
RORA	-0.28126	-3.1433	0.0021055	0.029263
PRAG1	0.2419	3.142	0.0021146	0.029359
ADGRB1	0.27053	3.1407	0.0021235	0.029452
GIMAP2	-0.27662	-3.1397	0.0021298	0.029509
HSPA1B	0.33085	3.1381	0.0021405	0.029613
H2AB2	0.3746	3.1379	0.0021417	0.029613
MAP3K6	0.18231	3.1372	0.0021466	0.02965
NDUFS7	0.19225	3.1369	0.0021487	0.02965
PLEKHG2	0.19258	3.136	0.0021546	0.0297
ARHGEF10L	0.24613	3.1338	0.0021696	0.029866
TONSL	0.19273	3.1336	0.0021711	0.029866
SAMD4B	0.16006	3.1331	0.0021745	0.029882

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COMMD8	-0.46811	-3.1327	0.002177	0.029885
ZC3H3	0.19824	3.1307	0.002191	0.030047
MMP25	0.34665	3.1302	0.0021944	0.030063
TWF1	-0.28278	-3.1287	0.0022047	0.030157
KLF3	-0.20646	-3.1286	0.0022057	0.030157
GPATCH2	-0.21046	-3.1281	0.0022092	0.030174
VANGL1	-0.2623	-3.1276	0.0022128	0.030192
TRIM8	0.20109	3.1257	0.0022259	0.030334
ZC3H18	0.17677	3.1254	0.0022277	0.030334
OOEP	0.71437	3.1204	0.0022628	0.03078
GAL3ST4	0.27234	3.1196	0.0022684	0.030826
ANKRD13D	0.18056	3.1144	0.0023058	0.03127
ATL2	-0.16489	-3.1125	0.0023196	0.031426
RFX1	0.20286	3.112	0.0023234	0.031445
RFX7	-0.25623	-3.1113	0.0023284	0.031482
ACAA2	-0.20319	-3.1105	0.0023343	0.03153
ZCCHC10	-0.30296	-3.1095	0.0023417	0.031598
CDC73	-0.15	-3.109	0.0023455	0.031617
SELENOK	-0.31002	-3.1078	0.0023544	0.031706
MAP1S	0.23412	3.1062	0.0023657	0.031825
LUZP1	-0.17592	-3.1053	0.0023728	0.031862
TMEM201	0.17381	3.1052	0.0023731	0.031862
NAA15	-0.17436	-3.1045	0.0023786	0.031904
FLJ45513	0.34423	3.1034	0.0023868	0.031981
PDE1B	0.22959	3.1028	0.0023915	0.031985
SPTSSB	-0.39946	-3.1027	0.0023919	0.031985
GEMIN7	0.27141	3.1022	0.0023959	0.032008
HMGCS1	-0.20463	-3.1011	0.002404	0.032072
UGDH	-0.16893	-3.1004	0.0024091	0.032072
NBEAL2	0.22358	3.1004	0.0024092	0.032072
LCAT	0.16016	3.1003	0.0024103	0.032072
PGM2L1	-0.22175	-3.0998	0.0024137	0.032086
CAVIN2	-0.397	-3.0992	0.0024186	0.032118
PRKCI	-0.20798	-3.098	0.0024271	0.032169
ZMAT4	-0.82158	-3.098	0.0024272	0.032169
RPAP3	-0.16563	-3.0969	0.0024356	0.032238
BROX	-0.20187	-3.0964	0.0024392	0.032238
POTEG	0.53528	3.0964	0.0024397	0.032238
ZNF836	-0.16278	-3.0958	0.0024438	0.032238
FUNDC2	-0.44471	-3.0956	0.0024454	0.032238
CCDC25	-0.17772	-3.0954	0.0024473	0.032238

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SYCE1	0.5947	3.0951	0.0024492	0.032238
MEIS3	0.7805	3.0921	0.0024722	0.03251
ARHGAP17	0.18988	3.088	0.0025044	0.032868
ZNF888	-0.21788	-3.0878	0.0025055	0.032868
SLIT1	0.22132	3.0877	0.0025069	0.032868
TMEM8B	0.18792	3.0867	0.0025145	0.032936
SLC25A24	-0.26393	-3.0859	0.0025209	0.032971
CDRT4	0.47223	3.085	0.0025275	0.032971
ZNF644	-0.27235	-3.0849	0.0025289	0.032971
MSMO1	-0.19273	-3.0848	0.0025296	0.032971
TNFRSF25	0.20672	3.0846	0.0025311	0.032971
GCH1	-0.24071	-3.0845	0.0025319	0.032971
NAGPA	0.1501	3.0837	0.0025378	0.033017
NLGN2	0.29343	3.0826	0.0025465	0.033067
ZNF219	0.19009	3.0826	0.0025469	0.033067
ZNF420	-0.21385	-3.0821	0.0025507	0.033067
TLR3	-0.30851	-3.082	0.0025515	0.033067
CACYBP	-0.16018	-3.0814	0.0025566	0.0331
ILRUN	-0.18336	-3.0799	0.0025685	0.033222
MFGE8	0.22136	3.0773	0.0025887	0.033452
UMAD1	-0.17864	-3.0755	0.0026037	0.033613
SPDYE16	0.29917	3.0752	0.0026062	0.033613
FOXD4L3	0.63138	3.0741	0.0026152	0.033697
GPATCH11	-0.19478	-3.0731	0.0026234	0.033754
USP28	-0.19402	-3.0729	0.0026247	0.033754
CKB	-0.41063	-3.0719	0.0026324	0.03382
ZWILCH	-0.22154	-3.0711	0.0026394	0.033879
ZNF45	-0.1626	-3.0698	0.0026501	0.033983
TSPAN31	-0.17644	-3.0664	0.0026778	0.034305
ZDHHC11B	0.52169	3.0646	0.0026932	0.034456
FRRS1	-0.38177	-3.0644	0.0026947	0.034456
PDE12	-0.15134	-3.0639	0.0026985	0.034471
SHANK1	0.54067	3.0626	0.0027096	0.03458
CLDND2	-0.41019	-3.0606	0.0027267	0.034766
TNFRSF13C	0.29457	3.0579	0.0027493	0.035021
CISH	0.22112	3.0574	0.0027537	0.035023
PTPN6	0.15681	3.0573	0.0027547	0.035023
ADCY4	0.29255	3.0569	0.002758	0.035031
DUSP5	-0.27247	-3.0555	0.0027699	0.035135
CRIP3	0.30939	3.0548	0.0027758	0.035135
PPM1L	-0.28865	-3.0546	0.0027773	0.035135

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AR	-0.58015	-3.0546	0.0027773	0.035135
TP53I11	0.28913	3.0544	0.0027792	0.035135
TMEM117	-0.30973	-3.0532	0.0027901	0.03524
RECQL	-0.2294	-3.0517	0.0028028	0.035367
MLH3	-0.18269	-3.0506	0.002812	0.03545
HLX	0.31786	3.0492	0.0028243	0.035571
NCOR2	0.22778	3.0481	0.0028336	0.035648
SLC16A13	0.15901	3.0479	0.0028357	0.035648
CSAD	0.31185	3.0466	0.0028469	0.035735
SPIRE2	0.26637	3.0465	0.002848	0.035735
CDC42	-0.18591	-3.0461	0.0028518	0.03575
FOXM1	0.3057	3.0439	0.0028707	0.035939
NAA80	0.20409	3.0438	0.0028722	0.035939
NFATC2	-0.23686	-3.0431	0.0028775	0.035972
ZNF875	0.15609	3.0422	0.0028863	0.036048
PHAX	-0.17374	-3.041	0.0028966	0.036087
ZCCHC12	0.70699	3.0409	0.0028974	0.036087
MTRNR2L8	-0.30881	-3.0409	0.0028975	0.036087
CGGBP1	-0.1786	-3.0397	0.0029083	0.036188
SEMA4D	0.18781	3.0394	0.0029111	0.03619
PSENE1	0.30698	3.0379	0.0029244	0.036295
AMN	0.29486	3.0378	0.002925	0.036295
SULT1A2	0.5509	3.0364	0.0029382	0.036425
PTPN22	-0.20859	-3.0359	0.0029425	0.036445
TRIM40	-0.67656	-3.0353	0.0029479	0.036478
SLC25A20	-0.20882	-3.035	0.0029509	0.036482
PHF5A	-0.30095	-3.032	0.0029777	0.036779
GCSAML	-0.5583	-3.0311	0.0029865	0.036854
WDR86	0.30791	3.0296	0.0029997	0.036962
TMEM79	0.1676	3.0295	0.0030008	0.036962
CTSL	-0.34273	-3.0289	0.0030061	0.036969
CEL	0.34363	3.0289	0.0030069	0.036969
RNFT2	0.26788	3.0283	0.0030124	0.037003
ESRP2	0.42538	3.0262	0.0030313	0.037173
CCDC102B	-0.34432	-3.026	0.0030331	0.037173
NARS2	-0.20089	-3.0259	0.0030345	0.037173
GRIN2D	0.29922	3.0252	0.0030406	0.037213
SPTY2D1	-0.17017	-3.0243	0.0030492	0.037284
THUMPD1	-0.1798	-3.0237	0.0030544	0.037315
DRC1	0.67983	3.0228	0.0030633	0.037369
SLC25A15	-0.19057	-3.0226	0.0030652	0.037369

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OR52K1	0.56386	3.0224	0.0030673	0.037369
TERF1	-0.14184	-3.0213	0.0030778	0.037422
PABPC1L	0.25295	3.0209	0.0030808	0.037422
POPDC2	0.19905	3.0208	0.0030817	0.037422
IER5L	0.33044	3.0206	0.0030839	0.037422
IRF2BP1	0.19564	3.0204	0.0030861	0.037422
ARHGAP33	0.30812	3.0201	0.0030887	0.037422
ZNF627	-0.17369	-3.0199	0.0030911	0.037422
DHRS1	0.1538	3.0184	0.0031053	0.037533
DGKZ	0.13135	3.0182	0.0031065	0.037533
CHMP2B	-0.17307	-3.018	0.0031086	0.037533
UCHL5	-0.18166	-3.0166	0.0031221	0.037662
TLE2	0.23527	3.0161	0.0031268	0.037685
CTSO	-0.17561	-3.0155	0.0031327	0.037709
RBAK	-0.24386	-3.0148	0.0031389	0.037729
HAUS5	0.1679	3.0136	0.0031512	0.037843
DGKA	0.17435	3.0126	0.0031608	0.037903
PABPN1	0.18218	3.0125	0.0031619	0.037903
IKZF5	-0.20597	-3.0108	0.0031783	0.038066
THAP1	-0.19098	-3.0095	0.0031902	0.03813
FOXP3	0.3144	3.0094	0.0031921	0.03813
BSCL2	0.33687	3.0093	0.0031921	0.03813
PPP1R3E	0.19822	3.0058	0.0032268	0.038509
RAB3A	0.24117	3.0049	0.0032362	0.038587
AP5Z1	0.13437	3.0042	0.0032427	0.03863
TMX1	-0.25325	-3.0029	0.0032557	0.038745
NCEH1	-0.22419	-3.0027	0.0032581	0.038745
PRKD2	0.18266	3.0008	0.003277	0.038888
ACAP3	0.14741	3.0007	0.0032778	0.038888
SLC30A7	-0.19141	-3.0006	0.0032788	0.038888
HIGD1A	-0.32412	-2.9977	0.0033078	0.039197
TMEM184B	0.18139	2.9953	0.0033323	0.039422
SINHCAF	-0.16732	-2.9952	0.0033326	0.039422
VIT	-0.57276	-2.9945	0.0033398	0.039472
H2AX	0.22071	2.9933	0.0033525	0.039587
SWSAP1	0.18513	2.9928	0.0033579	0.039617
CD160	-0.41663	-2.9917	0.003369	0.039713
PRDM8	0.20877	2.9913	0.003373	0.039725
ZNF22-AS1	-0.31529	-2.9895	0.003391	0.039902
ADCK5	0.19024	2.988	0.0034073	0.040059
PAF1	0.15838	2.9877	0.0034104	0.04006

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KIAA0556	0.20605	2.9869	0.0034186	0.040091
PLA2G15	0.19287	2.9868	0.0034191	0.040091
KRT5	-0.66278	-2.9864	0.0034238	0.040112
FBXO41	0.16779	2.9851	0.0034366	0.040206
MYBL1	-0.38532	-2.985	0.0034378	0.040206
MIR4326	0.4675	2.9841	0.0034476	0.040285
AGPAT5	-0.19917	-2.9828	0.003461	0.040372
FBXO30	-0.23098	-2.9828	0.0034611	0.040372
PCDH1	-0.44492	-2.9819	0.0034705	0.040436
SPPL2B	0.18034	2.9817	0.0034725	0.040436
SH3BP2	0.15579	2.9798	0.0034928	0.040637
PDGFRA	-0.61296	-2.9778	0.0035143	0.040851
TMEM123	-0.2371	-2.9756	0.0035375	0.041053
ACTR6	-0.34882	-2.9751	0.0035425	0.041053
OSGIN2	-0.26675	-2.975	0.0035441	0.041053
KLRC1	-0.59889	-2.9749	0.003545	0.041053
TRIM32	-0.15463	-2.9745	0.0035489	0.041053
ZNF687	0.15396	2.9744	0.0035501	0.041053
RPS24	-0.20531	-2.9742	0.0035531	0.041053
CBX2	0.36471	2.9733	0.0035621	0.041122
AP1G2	0.14925	2.9725	0.0035711	0.04119
IMPA1	-0.22513	-2.9715	0.0035814	0.041273
SVIP	-0.21964	-2.9706	0.0035914	0.041354
CDK6	-0.2014	-2.9695	0.0036039	0.041462
SSH3	0.19927	2.9691	0.0036075	0.041468
TRMT10C	-0.22034	-2.9689	0.0036106	0.041468
SMARCA5	-0.15833	-2.9678	0.0036222	0.041552
KMT2B	0.18024	2.9676	0.0036241	0.041552
CASD1	-0.20122	-2.9664	0.0036381	0.041677
NEK5	-0.45563	-2.9655	0.0036474	0.041748
IL12RB2	-0.30173	-2.962	0.0036869	0.042161
ARL13B	-0.35012	-2.9617	0.0036898	0.042161
BNC2	-0.6165	-2.9588	0.0037219	0.042492
TBC1D3B	0.29853	2.9566	0.0037472	0.042667
EEF1A1	-0.35271	-2.9565	0.0037481	0.042667
MIR9-3HG	-0.29431	-2.9562	0.0037521	0.042667
DHODH	0.15296	2.9561	0.0037527	0.042667
PADI4	0.36309	2.9558	0.0037565	0.042667
KIF21A	-0.31943	-2.9556	0.0037584	0.042667
ARFIP1	-0.19997	-2.9553	0.0037614	0.042667
ARL14EP	-0.17115	-2.9552	0.0037626	0.042667

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RSBN1	-0.15523	-2.9548	0.0037675	0.042685
SLC4A2	0.1468	2.9544	0.0037722	0.042703
APBB3	0.22496	2.9528	0.0037907	0.042828
SORBS3	0.21489	2.9527	0.0037917	0.042828
GAA	0.21702	2.9526	0.0037929	0.042828
MOSPD3	0.17509	2.9522	0.0037973	0.042843
RNF44	0.21723	2.951	0.0038105	0.042955
SPACA6	0.36962	2.9501	0.0038207	0.043034
SCLY	0.24158	2.9491	0.003833	0.043134
UBE3A	-0.17846	-2.9488	0.003836	0.043134
GNGT2	-0.25347	-2.9479	0.0038466	0.043217
DAAM1	-0.2546	-2.9468	0.0038589	0.043319
MRI1	0.18518	2.945	0.0038805	0.043513
LYPD3	0.2436	2.9448	0.0038827	0.043513
RSPRY1	-0.14354	-2.944	0.0038916	0.043576
PAPOLA	-0.16552	-2.9429	0.0039056	0.043697
LTB	0.20313	2.9414	0.0039227	0.043851
RHPN1	0.23193	2.9408	0.0039292	0.043888
TEC	-0.19666	-2.9402	0.0039365	0.043933
IL4R	0.22123	2.9382	0.003961	0.044133
UBA1	0.1799	2.937	0.0039745	0.044221
YOD1	-0.25309	-2.937	0.0039755	0.044221
RCOR2	0.59825	2.9364	0.0039826	0.044263
DNMT3B	0.3018	2.9359	0.0039878	0.044271
TEX22	0.23367	2.9357	0.0039899	0.044271
ZFP41	0.17404	2.9354	0.0039935	0.044275
UNC93B1	0.22293	2.935	0.003999	0.0443
GNG7	0.20894	2.9341	0.0040098	0.044357
EID1	-0.19508	-2.934	0.0040108	0.044357
RPE	-0.18452	-2.9324	0.0040307	0.044488
ARHGEF11	0.21063	2.9322	0.0040325	0.044488
SPIN4	-0.3661	-2.9321	0.0040334	0.044488
NFKBIB	0.15852	2.9319	0.004036	0.044488
TKTL1	-0.39919	-2.9316	0.0040396	0.044492
PHLDA1	-0.30375	-2.9306	0.0040525	0.04452
PRR12	0.23925	2.9306	0.0040525	0.04452
APOBEC3A	0.36201	2.9305	0.004053	0.04452
ZNF568	-0.21838	-2.9303	0.0040554	0.04452
PTGDR2	-0.33777	-2.929	0.0040719	0.044665
CASTOR3	0.18505	2.9281	0.0040831	0.04475
IFITM5	-0.70265	-2.9268	0.0040983	0.044844

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C4orf46	-0.15552	-2.9268	0.0040988	0.044844
HCP5	-0.20703	-2.9264	0.0041028	0.044844
ARSA	0.192	2.9263	0.004105	0.044844
C11orf58	-0.1565	-2.9253	0.0041175	0.044944
ZNF12	-0.18542	-2.9247	0.0041243	0.044982
SLC22A7	0.6602	2.9244	0.004128	0.044986
LOC400499	0.35706	2.924	0.0041334	0.04499
H2AB3	0.33935	2.9238	0.0041351	0.04499
SETD1B	0.23859	2.9204	0.0041775	0.045395
RELA-DT	0.18441	2.9203	0.004179	0.045395
NTPCR	-0.21439	-2.9199	0.0041843	0.045415
DHX34	0.23269	2.919	0.0041949	0.045469
SPI1	0.27103	2.9189	0.004196	0.045469
TMEM272	0.35417	2.9179	0.0042092	0.045492
RTL8C	0.16905	2.9177	0.0042121	0.045492
INPP5E	0.17968	2.9174	0.004216	0.045492
OPLAH	0.3965	2.9173	0.0042171	0.045492
CUL5	-0.24866	-2.9171	0.0042189	0.045492
ADH5	-0.20078	-2.9168	0.0042225	0.045492
DGLUCY	0.17283	2.9166	0.0042253	0.045492
SEMA6C	0.18936	2.9166	0.0042259	0.045492
PHF14	-0.18781	-2.9163	0.0042287	0.045492
STRADA	0.15594	2.916	0.0042327	0.045499
SH2B2	0.25883	2.915	0.004246	0.045605
MAPK13	0.18009	2.9146	0.0042515	0.045628
ETS1	-0.19824	-2.9118	0.0042866	0.045968
GSK3A	0.16768	2.9092	0.0043205	0.046295
UNC5CL	0.20904	2.9076	0.0043403	0.04647
CSK	0.14811	2.9074	0.0043438	0.046471
MXI1	-0.37444	-2.9055	0.0043678	0.046689
HSBP1L1	0.23267	2.9052	0.0043715	0.046691
NDUFA11	0.2507	2.9034	0.0043956	0.046897
EFR3A	-0.21235	-2.9032	0.0043977	0.046897
CYB5R2	0.42812	2.9029	0.0044021	0.046907
PSMD10	-0.26125	-2.9021	0.0044126	0.046982
PGBD1	0.32204	2.8998	0.0044426	0.047263
KRTCAP2	0.18094	2.8993	0.0044489	0.047293
DYNLT3	-0.21241	-2.8988	0.0044564	0.047335
GOLT1B	-0.22068	-2.8983	0.0044632	0.04737
DNAJA1	-0.20314	-2.8979	0.0044677	0.04738
CMIP	0.2328	2.8974	0.0044746	0.047416

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LYRM2	-0.19578	-2.8971	0.0044792	0.047427
GZMH	-0.47273	-2.8967	0.0044844	0.047427
SLC39A2	0.49902	2.8964	0.0044881	0.047427
PFKP	0.19531	2.8962	0.004491	0.047427
SUB1	-0.26936	-2.896	0.0044933	0.047427
PRKG2	-0.67296	-2.8955	0.0044995	0.047434
DOK3	0.29469	2.8952	0.0045033	0.047434
ZNF692	0.21343	2.8952	0.0045046	0.047434
C9orf78	-0.38326	-2.8946	0.0045118	0.047473
CNOT8	-0.13054	-2.894	0.0045204	0.047526
SLC38A10	0.17064	2.8936	0.0045253	0.04754
PRR7	0.18992	2.8928	0.004536	0.047594
CXCR3	0.29148	2.8925	0.0045399	0.047594
ATG4C	-0.16081	-2.8924	0.0045411	0.047594
MARK2	0.17872	2.8913	0.0045567	0.047721
ABCB10	-0.23096	-2.8902	0.0045716	0.04784
PLIN4	0.35524	2.8876	0.0046067	0.048154
SLC26A11	0.22632	2.8875	0.0046088	0.048154
IQCIN	0.29327	2.886	0.0046282	0.048319
HSPA1A	0.29543	2.8855	0.0046353	0.048355
TMED2	-0.17383	-2.8845	0.004649	0.048441
SV2A	0.22433	2.8844	0.0046507	0.048441
ZNF595	-0.36536	-2.8836	0.0046624	0.048525
MYO16	0.61428	2.8827	0.004674	0.048572
AP1AR	-0.24959	-2.8823	0.0046795	0.048572
MAZ	0.20081	2.8822	0.0046813	0.048572
MYO15B	0.21432	2.8822	0.0046814	0.048572
MIR331	0.55562	2.8815	0.0046915	0.048639
ATP5PB	-0.20238	-2.8803	0.0047078	0.04872
PRCD	0.31942	2.8801	0.0047111	0.04872
PODNL1	0.29345	2.8798	0.0047147	0.04872
TAOK1	-0.21019	-2.8798	0.0047152	0.04872
SLC22A17	0.28521	2.8796	0.0047181	0.04872
ANKRD34A	0.26449	2.8792	0.0047232	0.04872
MMP9	0.5271	2.8791	0.0047247	0.04872
KLHL26	0.13903	2.8786	0.0047316	0.048754
LIG1	0.15291	2.8777	0.0047447	0.048851
RFK	-0.20315	-2.8762	0.0047652	0.049025
LIN9	-0.29983	-2.8755	0.0047746	0.049046
ADCY10P1	0.31885	2.8754	0.0047767	0.049046
CCDC32	0.17346	2.8753	0.0047782	0.049046

Appendix 1 to Pan S, Zhou Y, Yan L, et al. TGF- β 1 is associated with deficits in cognition and cerebral cortical thickness in first-episode schizophrenia. *J Psychiatry Neurosci* 2022. doi: 10.1503/jpn.210121
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TIPRL	-0.15414	-2.8749	0.0047836	0.049058
WWP1	-0.15879	-2.8747	0.0047867	0.049058
BAG1	-0.51365	-2.8734	0.0048052	0.04921
AZI2	-0.19989	-2.8729	0.0048115	0.049237
FRS2	-0.18436	-2.8718	0.0048282	0.049337
CLCN6	0.16044	2.8717	0.0048286	0.049337
PCDH17	-0.51426	-2.8714	0.0048335	0.04935
CASR	0.68305	2.871	0.0048398	0.049365
ZNF654	-0.24164	-2.8707	0.0048433	0.049365
MCAM	0.45949	2.8705	0.004846	0.049365
HPF1	-0.19702	-2.8701	0.0048527	0.049395
SLCO4A1	0.41719	2.8681	0.0048813	0.049649
SNRPA	0.17117	2.8659	0.0049127	0.04993
MLC1	-0.33466	-2.8653	0.0049207	0.049974

Appendix 1 to Pan S, Zhou Y, Yan L, et al. TGF- β 1 is associated with deficits in cognition and cerebral cortical thickness in first-episode schizophrenia. *J Psychiatry Neurosci* 2022. doi: 10.1503/jpn.210121
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Table S2

Blood DEGs_DAVID_MF

Annotation Cluster 1 Enrichment Score: 1.263220299756809

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_M F_DIRECT	GO:0005114~type II transforming growth factor beta receptor binding	4	0.313	0.008	TGFBR3, TGFB1, TGFBR1, ENG	1105	7	16881	8.730	1	0.909	0.909
GOTERM_M F_DIRECT	GO:0005024~trans forming growth factor beta-activated receptor activity	3	0.235	0.072	TGFBR3, TGFBR1, ENG	1105	7	16881	6.547	1	1	1
GOTERM_M F_DIRECT	GO:0050431~trans forming growth factor beta binding	3	0.235	0.282	TGFBR3, TGFBR1, ENG	1105	16	16881	2.864	1	1	1

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Annotation Cluster 2 Enrichment Score:0.7242223147442225

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_M F_DIRECT	GO:0005158~insulin receptor binding	5	0.391	0.141	DOK3, FRS2, PTPN11, PIK3R1, INSL3 TLR9,	1105	31	16881	2.464	1	1	1
GOTERM_M F_DIRECT	GO:0016303~1 phosphatidylinositol-3-kinase activity	6	0.469	0.148	PIK3R3, FRS2, PTPN11, PIK3CB, PIK3R1	1105	43	16881	2.132	1	1	1
GOTERM_M F_DIRECT	GO:0043560~insulin receptor substrate binding	3	0.235	0.159	PTPN11, PIK3CB, PIK3R1	1105	11	16881	4.166	1	1	1

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GOTERM_M F_DIRECT	GO:0046934~phosphatidylinositol-4,5-bisphosphate 3-kinase activity	6	0.469	0.382	PDGFRA, FRS2, PTPN11, PIK3CB, PIK3R1, EREG	1105	62	16881	1.478	1	1	1
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Annotation Cluster 3 Enrichment Score: 0.6351404184118774

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_M F_DIRECT	GO:0030215~semaphorin receptor binding	4	0.313	0.188	SEMA6C, SEMA4A, SEMA4D, SEMA4B	1105	23	16881	2.657	1	0.909	0.909
GOTERM_M F_DIRECT	GO:0038191~neuropilin binding	3	0.235	0.257	SEMA4A, SEMA4D, SEMA4B	1105	15	16881	3.055	1	1	1
GOTERM_M F_DIRECT	GO:0045499~chemorepellent activity	4	0.313	0.258	SEMA6C, SEMA4A, SEMA4D, SEMA4B	1105	27	16881	2.263	1	1	1

Appendix 1 to Pan S, Zhou Y, Yan L, et al. TGF- β 1 is associated with deficits in cognition and cerebral cortical thickness in first-episode schizophrenia. *J Psychiatry Neurosci* 2022. doi: 10.1503/jpn.210121

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Blood DEGs_DAVID_BP

Annotation Cluster 1 Enrichment Score: 1.4834379008856098

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_B P_DIRECT	GO:0071577~zinc II ion transmembrane transport	6	0.469	0.005	SLC30A7, SLC30A6, SLC30A4, SLC39A6, SLC30A1, SLC39A2	1096	18	16792	5.107	1	1	1

Appendix 1 to Pan S, Zhou Y, Yan L, et al. TGF- β 1 is associated with deficits in cognition and cerebral cortical thickness in first-episode schizophrenia. *J Psychiatry Neurosci* 2022. doi: 10.1503/jpn.210121

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GOTERM_B P_DIRECT	GO:0061088~regulation of sequestering of zinc ion	4	0.313	0.173	SLC30A7, SLC30A6, SLC30A4, SLC30A1	1096	9	16792	6.809	1	1	1
GOTERM_B P_DIRECT	GO:0010043~response to zinc ion	4	0.313	0.420	SLC30A7, SLC30A6, SLC30A4, SLC30A1	1096	36	16792	1.702	1	1	1

Annotation Cluster 2 Enrichment Score: 1.065281899558422

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_B P_DIRECT	GO:0032700~negative regulation of interleukin-17 production	4	0.313	0.031	PRNP, TGFB1, TNFSF4, FOXP3	1096	11	16792	5.571	1	1	1

Appendix 1 to Pan S, Zhou Y, Yan L, et al. TGF- β 1 is associated with deficits in cognition and cerebral cortical thickness in first-episode schizophrenia. *J Psychiatry Neurosci* 2022. doi: 10.1503/jpn.210121

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GOTERM_B P_DIRECT	GO:0032689~negative regulation of interferon-gamma production	5	0.391	0.106	PRNP, TNFSF4, HMGB1, FOXP3, HAVCR2	1096	28	16792	2.736	1	1	1
GOTERM_B P_DIRECT	GO:0043433~negative regulation of sequence-specific DNA binding transcription factor activity	7	0.548	0.195	PRNP, TNFSF4, CEBPG, RLIM, FOXP3, RNF2, SMAD7	1096	60	16792	1.787	1	1	1

Annotation Cluster 3 Enrichment Score: 1.0310210919726999

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
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GOTERM_B P_DIRECT	GO:0050885~neuromuscular process controlling balance	8	0.626	0.028	CNTNAP1, NLGN2, NR4A3, DLG4, GAA, CACNA1A, RAC3, SHANK1	1096	46	16792	2.665	1	1	1
GOTERM_B P_DIRECT	GO:2000463~positive regulation of excitatory postsynaptic potential	4	0.313	0.138	NLGN3, NLGN2, DLG4, SHANK1	1096	20	16792	3.064	1	1	1
GOTERM_B P_DIRECT	GO:0035418~protein localization to synapse	3	0.235	0.206	NLGN2, DLG4, SHANK1	1096	13	16792	3.536	1	1	1

Blood DEGs_DAVID_KEGG

Appendix 1 to Pan S, Zhou Y, Yan L, et al. TGF- β 1 is associated with deficits in cognition and cerebral cortical thickness in first-episode schizophrenia. *J Psychiatry Neurosci* 2022. doi: 10.1503/jpn.210121

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Annotation Cluster 1 Enrichment Score: 2.818933485201748

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
KEGG_PATHWAY	hsa04062: Chemokine signaling pathway	26	2.034	2.353	SHC2, GSK3A, PXN, ADCY4, GNAI3, WAS, PIK3R3, CXCL1, CXCR6, PIK3CB, PIK3R1, RAP1B, CDC42, NRAS, RAP1A, GNGT2, GNG2, GNG5, CXCR3, GNG7, CCL4, PRKACB, CHUK, KRAS, CRK, NFKBIB	434	186	6879	2.216	0.060	0.0311	0.029

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KEGG_ PATHW AY	hsa04015: Rap1 signaling pathway	26	2.034	0.001	RALA, RGS14, CSF1, ADCY4, GNAI3, LPAR2, PIK3R3, PIK3CB, PIK3R1, RAP1B, CDC42, NRAS, RAP1A, PDGFD, P2RY1, RAC3, PDGFRA, PRKCI, F2R, MAPK13, MRAS, ADORA2A, KRAS, PRKD2, CALM2, CRK	434	210	6879	1.962	0.318	0.041	0.038
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KEGG_ PATHW AY	hsa04014: Ras signaling pathway	27	2.112	0.002	RALA, SHC2, CSF1, PIK3R3, PIK3CB, PIK3R1, ETS1, RAP1B, CDC42, NRAS, RAP1A, GNGT2, GNG2, SYNGAP1, GNG5, GNG7, PDGFD, RAC3, PRKACB, PDGFRA, CHUK, PLA2G4B, RRAS2, PTPN11, MRAS, KRAS, CALM2 SHC2, PIK3R3, FRS2, PTPN11, PIK3CB, PIK3R1, MAPK13, CDC42, RAP1B, NRAS, RAP1A, KRAS, CALM2, CRK, SH2B2, NFKBIB	434	226	6879	1.894	0.399	0.437	0.041
KEGG_ PATHW AY	hsa04722: Neurotroph in signaling pathway	16	1.252	0.008		434	120	6879	2.113	0.879	0.109	0.101

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Annotation Cluster 2 Enrichment Score: 1.7481231862999154

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
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KEGG_ PATHW AY	hsa04611: Platelet activation	19	1.487	0.001	P2RY12, PRKCI, ARHGEF12, PLA2G4B, F2R, ADCY4, GNAI3, PIK3R3, PIK3CB, PIK3R1, MAPK13, GNA13, RAP1B, PPP1CB, RAP1A, P2RY1, PRKG2, ARHGEF1, PRKACB ATF2, GABBR1, SHC2, ADCY4, GNAI3, PIK3R3, PIK3CB, PIK3R1, MMP9, NRAS, KRAS, CALM2, PRKACB, HSPA1B, HSPA1A	434	130	6879	2.317	0.275	0.040	0.037
KEGG_ PATHW AY	hsa04915: Estrogen signaling pathway	15	1.737	0.003	P2RY12, PRKCI, ARHGEF12, PLA2G4B, F2R, ADCY4, GNAI3, PIK3R3, PIK3CB, PIK3R1, MAPK13, GNA13, RAP1B, PPP1CB, RAP1A, P2RY1, PRKG2, ARHGEF1, PRKACB ATF2, GABBR1, SHC2, ADCY4, GNAI3, PIK3R3, PIK3CB, PIK3R1, MMP9, NRAS, KRAS, CALM2, PRKACB, HSPA1B, HSPA1A	434	99	6879	2.402	0.592	0.056	0.052

Appendix 1 to Pan S, Zhou Y, Yan L, et al. TGF- β 1 is associated with deficits in cognition and cerebral cortical thickness in first-episode schizophrenia. *J Psychiatry Neurosci* 2022. doi: 10.1503/jpn.210121

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KEGG_ PATHW AY	hsa04725: Cholinergic synapse	14	1.095	0.022	ADCY4, GNAI3, CACNA1A, PIK3R3, PIK3CB, PIK3R1, CACNA1F, NRAS, GNGT2, GNG2, GNG5, GNG7, KRAS, PRKACB	434	111	6879	1.999	0.997	0.215	0.201
KEGG_ PATHW AY	hsa04923: Regulation of lipolysis in adipocytes	9	0.704	0.023	LIPE, ADCY4, GNAI3, PIK3R3, PRKG2, PIK3CB, PIK3R1, PRKACB, PNPLA2	434	56	6879	2.547	0.998	0.215	0.201
KEGG_ PATHW AY	hsa04750: Inflammato ry mediator regulation of TRP channels	11	0.861	0.088	PPP1CB, PLA2G4B, ADCY4, PIK3R3, ALOX12, TRPV1, PIK3CB, PIK3R1, CALM2, PRKACB, MAPK13	434	98	6879	1.779	1	0.443	0.413
KEGG_ PATHW AY	hsa04914: Progesteron e-mediated oocyte maturation	9	0.704	0.180	PLK1, ADCY4, GNAI3, PIK3R3, KRAS, PIK3CB, PIK3R1, PRKACB, MAPK13	434	87	6879	1.640	1	0.637	0.593

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Annotation Cluster 3 Enrichment Score: 1.3649656250338933

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
KEGG_PATHWAY	hsa04370: VEGF signaling pathway	13	1.017	3.425	P2RY12, PRKCI, SHC2, SPHK2, PLA2G4B, PXN, NFATC2, PIK3R3, PIK3CB, PIK3R1, MAPK13, CDC42, NRAS, RAC3, KRAS	434	130	6879	2.317	0.275	0.040	0.037
KEGG_PATHWAY	hsa05210: Colorectal cancer	15	1.737	0.003	ATF2, GABBR1, SHC2, ADCY4, GNAI3, PIK3R3, PIK3CB, PIK3R1, MMP9, NRAS, KRAS, CALM2, PRKACB, HSPA1B, HSPA1A	434	99	6879	2.402	0.592	0.056	0.052

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KEGG_ PATHW AY	hsa04725: Cholinergic synapse	14	1.095	0.022	ADCY4, GNAI3, CACNA1A, PIK3R3, PIK3CB, PIK3R1, CACNA1F, NRAS, GNGT2, GNG2, GNG5, GNG7, KRAS, PRKACB	434	111	6879	1.999	0.997	0.215	0.201
KEGG_ PATHW AY	hsa04923: Regulation of lipolysis in adipocytes	9	0.704	0.023	LIPE, ADCY4, GNAI3, PIK3R3, PRKG2, PIK3CB, PIK3R1, PRKACB, PNPLA2	434	56	6879	2.547	0.998	0.215	0.201
KEGG_ PATHW AY	hsa04750: Inflammato ry mediator regulation of TRP channels	11	0.861	0.088	PPP1CB, PLA2G4B, ADCY4, PIK3R3, ALOX12, TRPV1, PIK3CB, PIK3R1, CALM2, PRKACB, MAPK13	434	98	6879	1.779	1	0.443	0.413
KEGG_ PATHW AY	hsa04914: Progesteron e-mediated oocyte maturation	9	0.704	0.180	PLK1, ADCY4, GNAI3, PIK3R3, KRAS, PIK3CB, PIK3R1, PRKACB, MAPK13	434	87	6879	1.640	1	0.637	0.593

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Table S3. TGF β family blood RNAseq analysis

EntrezID	logFC	AveExpr	t	P.Value	adj.P.Val	B	Symbols	Name
7046	-0.244	5.389	-3.345	0.0011	0.019	-1.023	TGFBR1	transforming growth factor beta receptor 1
7049	-0.452	4.317	-4.028	9.90E-05	0.004	1.151	TGFBR3	transforming growth factor beta receptor 3
7040	0.245	10.341	3.201	0.0017	0.026	-1.438	TGFB1	transforming growth factor beta 1 sterol regulatory element binding
6720	0.231	6.504	3.609	0.0005	0.011	-0.221	SREBF1	transcription factor 1
5829	0.210	8.401	3.118	0.0023	0.031	-1.671	PXN	paxillin
1435	0.236	4.636	3.015	0.0031	0.038	-1.953	CSF1	colony stimulating factor 1
2022	0.185	5.142	2.939	0.0040	0.044	-2.157	ENG	endoglin

Appendix 1 to Pan S, Zhou Y, Yan L, et al. TGF- β 1 is associated with deficits in cognition and cerebral cortical thickness in first-episode schizophrenia. *J Psychiatry Neurosci* 2022. doi: 10.1503/jpn.210121

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Table S4.TGF β family_blood RNAseq counts

#NAME	ENG	TGFB1	TGFBR1	TGFBR3
HC_21	803	24607	675	669
HC_25	835	23546	962	962
HC_77	861	24331	601	369
HC_78	464	18795	513	277
HC_80	776	24927	620	467
HC_81	756	24765	884	775
HC_87	544	14365	1210	620
HC_88	534	22507	735	303
HC_89	624	21973	979	690
HC_90	893	20522	868	612
HC_95	578	15703	331	241

HC_96	792	21723	851	439
HC_97	759	16943	1107	794
HC_109	370	9966	498	279
HC_110	667	17411	1142	373
HC_111	345	14743	376	238
HC_118	336	10249	486	211
HC_125	318	9308	934	616
HC_127	188	9592	570	178
HC_135	587	20133	963	585
HC_157	646	18888	991	549
HC_161	447	16158	323	224
HC_162	609	22010	848	427
HC_163	565	17019	910	521
HC_164	821	17580	968	548
HC_166	468	16543	1303	721
HC_179	721	22615	1077	417
HC_180	568	23319	900	322
HC_182	778	27061	774	254
HC_222	541	22748	651	336
HC_225	459	22045	734	407
HC_244	313	17153	449	245
HC_245	453	21800	831	338
HC_249	489	26089	711	274
HC_251	409	24336	631	339

HC_252	416	22698	633	304
HC_22	580	16361	1070	577
HC_112	420	19873	680	246
HC_117	268	18955	535	223
HC_126	505	18428	857	183
HC_128	561	16563	1001	613
HC_136	580	24105	853	500
HC_159	422	19621	1033	319
HC_171	263	12054	548	249
FS_30	722	17000	1050	466
FS_31	1119	22436	848	431
FS_35	775	18267	1064	572
FS_36	620	18249	1303	410
FS_37	646	19723	937	253
FS_38	850	24650	506	386
FS_40	846	18313	973	545
FS_61	607	31481	410	178
FS_62	947	29833	642	524
FS_64	908	26096	542	255
FS_65	994	34146	488	263
FS_66	944	35517	680	399
FS_67	1031	30086	694	560
FS_68	668	31235	479	290
FS_70	432	11813	323	91

FS_71	365	11608	179	144
FS_72	731	26075	782	463
FS_73	593	29247	519	194
FS_75	840	27838	441	248
FS_76	545	29936	383	92
FS_82	710	23525	1025	428
FS_84	339	19946	825	65
FS_85	552	23583	789	312
FS_86	632	31426	668	301
FS_91	652	19354	1079	805
FS_92	949	24551	887	579
FS_93	689	19996	984	327
FS_100	247	13408	619	196
FS_101	401	9214	670	457
FS_102	383	12521	391	219
FS_108	315	9246	364	82
FS_114	227	10482	603	182
FS_115	297	13862	400	178
FS_129	625	18821	795	293
FS_131	620	18101	1238	658
FS_132	584	17818	907	441
FS_133	459	23118	340	63
FS_134	280	17438	253	113
FS_139	575	22948	764	445

FS_141	563	23468	599	217
FS_142	523	19485	659	336
FS_147	294	19090	813	303
FS_149	722	24331	583	314
FS_150	577	20331	623	131
FS_152	582	27540	681	325
FS_153	541	17300	834	420
FS_154	763	23904	820	268
FS_156	816	18616	853	397
FS_168	691	20481	1113	460
FS_170	911	19705	1019	476
FS_173	868	28303	729	297
FS_174	475	20478	739	210
FS_178	678	16652	1524	986
FS_187	393	18014	483	239
FS_188	749	25487	625	271
FS_191	584	34241	218	108
FS_193	348	20202	450	148
FS_194	615	31321	597	264
FS_195	744	30153	542	372
FS_196	700	31067	402	275
FS_200	473	26136	568	277
FS_201	528	30040	658	585
FS_204	368	24989	367	93

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FS_216	200	6746	290	116
FS_229	348	15655	319	94
FS_230	607	25549	562	305
FS_231	705	21994	548	365
FS_232	652	31424	441	284
FS_233	592	25558	734	498
FS_234	461	29425	651	346
FS_236	971	25954	532	164
FS_237	371	17523	364	114
FS_213	680	28134	527	305
FS_214	529	22145	651	355
FS_215	560	22590	653	565

Table S5. CMC_DLPCFC WGCNA_TGF β 1 coexpressed_Gene list

ID	clustering method	cluster number	cluster color	gene count	protein name
CTR	kmeans	2	Green	26	SREBF1

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CTR	kmeans	2	Green	26	TGFB1
CTR	kmeans	2	Green	26	PDGFRB
CTR	kmeans	2	Green	26	NTN1
CTR	kmeans	2	Green	26	MAPKAPK2
CTR	kmeans	2	Green	26	MOV10
CTR	kmeans	2	Green	26	RNF43
CTR	kmeans	2	Green	26	AGT
CTR	kmeans	2	Green	26	ERBB2
CTR	kmeans	2	Green	26	FGFR3
CTR	kmeans	2	Green	26	CSF1
CTR	kmeans	2	Green	26	PTBP1
CTR	kmeans	2	Green	26	ZFHX3
CTR	kmeans	2	Green	26	UCP2
CTR	kmeans	2	Green	26	CABLES1
CTR	kmeans	2	Green	26	ITPKB
CTR	kmeans	2	Green	26	NFATC1
CTR	kmeans	2	Green	26	SOD3
CTR	kmeans	2	Green	26	LATS2
CTR	kmeans	2	Green	26	NOTCH1
CTR	kmeans	2	Green	26	AXL
CTR	kmeans	2	Green	26	GLI3
CTR	kmeans	2	Green	26	H6PD
CTR	kmeans	2	Green	26	EHMT1
CTR	kmeans	2	Green	26	NOTCH3

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CTR	kmeans	2	Green	26	TP53
SCZ	kmeans	3	Dark Cyan	14	BCAN
SCZ	kmeans	3	Dark Cyan	14	TGFB1
SCZ	kmeans	3	Dark Cyan	14	FN1
SCZ	kmeans	3	Dark Cyan	14	TLN1
SCZ	kmeans	3	Dark Cyan	14	WFS1
SCZ	kmeans	3	Dark Cyan	14	ITGA7
SCZ	kmeans	3	Dark Cyan	14	LAMB2
SCZ	kmeans	3	Dark Cyan	14	BGN
SCZ	kmeans	3	Dark Cyan	14	FBLN1
SCZ	kmeans	3	Dark Cyan	14	AXL
SCZ	kmeans	3	Dark Cyan	14	PXN
SCZ	kmeans	3	Dark Cyan	14	HSPG2
SCZ	kmeans	3	Dark Cyan	14	NCAN
SCZ	kmeans	3	Dark Cyan	14	CSF1

Table S6. CMC_DLPFC WGCNA_TGF β 1 coexpressed_CTR_enrichment.Process_cluster_FDR > 10e-5

#term ID	term description	observed gene count	background gene count	false discovery rate	matching proteins in your network (labels)
GO:0007166	cell surface receptor signaling pathway	18	2198	1.37E-08	AGT,AXL,CSF1,ERBB2,FGFR3,GLI3,ITPKB,MAPKAPK2,MOV10,NFATC1,NOTCH1,NOTCH3,PDGFRB,PTBP1,RNF43,SREBF1,TGFB1,TP53
GO:0050793	regulation of developmental process	18	2416	3.39E-08	AGT,AXL,CSF1,EHMT1,ERBB2,FGFR3,GLI3,ITPKB,LATS2,MOV10,NFATC1,NOTCH1,NOTCH3,NTN1,PDGFRB,PTBP1,TGFB1,ZFHX3
GO:0008283	cell population proliferation	11	676	3.17E-07	AGT,CSF1,ERBB2,FGFR3,GLI3,ITPKB,NOTCH1,PDGFRB,RNF43,TGFB1,TP53
GO:0010646	regulation of cell communication	19	3327	3.17E-07	AGT,AXL,CSF1,ERBB2,FGFR3,GLI3,ITPKB,LATS2,MAPKAPK2,NFATC1,NOTCH1,NOTCH3,PDGFRB,PTBP1,RNF43,SREBF1,TGFB1,TP53,UCP2
GO:0023051	regulation of signaling	19	3360	3.17E-07	AGT,AXL,CSF1,ERBB2,FGFR3,GLI3,ITPKB,LATS2,MAPKAPK2,NFATC1,NOTCH1,NOTCH3,PDGFRB,PTBP1,RNF43,SREBF1,TGFB1,TP53,UCP2
GO:0048519	negative regulation of biological process	22	4953	3.17E-07	AGT,AXL,EHMT1,ERBB2,FGFR3,GLI3,ITPKB,LATS2,MAPKAPK2,MOV10,NFATC1,NOTCH1,NOTCH3,NTN1,PDGFRB,PTBP1,RNF43,SREBF1,TGFB1,TP53,UCP2,ZFHX3
GO:0051093	negative regulation of developmental process	12	910	3.17E-07	AGT,ERBB2,FGFR3,GLI3,ITPKB,NFATC1,NOTCH1,NOTCH3,NTN1,PTBP1,TGFB1,ZFHX3

GO:1902533	positive regulation of intracellular signal transduction	12	959	3.24E-07	AGT,AXL,CSF1,ERBB2,FGFR3,ITPKB,MAPKAPK2,NOTCH1,PDGFRB,PTBP1,TGFB1,TP53
GO:0042221	response to chemical	20	4153	5.87E-07	AGT,AXL,CSF1,EHMT1,ERBB2,FGFR3,GLI3,ITPKB,LATS2,MAPKAPK2,NOTCH1,NTN1,PDGFRB,PTBP1,SOD3,SREBF1,TGFB1,TP53,UCP2,ZFH X3
GO:0051239	regulation of multicellular organismal process	17	2788	9.09E-07	AGT,AXL,CSF1,EHMT1,ERBB2,GLI3,ITPKB,LATS2,MAPKAPK2,MOV10,NFATC1,NOTCH1,NOTCH3,NTN1,PDGFRB,SREBF1,TGFB1
GO:0045595	regulation of cell differentiation	14	1695	1.12E-06	AGT,AXL,CSF1,ERBB2,GLI3,ITPKB,MOV10,NFATC1,NOTCH1,NOTCH3,NTN1,PTBP1,TGFB1,ZFH X3
GO:0048523	negative regulation of cellular process	20	4454	1.59E-06	AGT,AXL,EHMT1,ERBB2,GLI3,ITPKB,LATS2,MAPKAPK2,NFATC1,NOTCH1,NOTCH3,NTN1,PDGFRB,PTBP1,RNF43,SREBF1,TGFB1,TP53,UCP2,ZFH X3
GO:0045596	negative regulation of cell differentiation	10	683	1.75E-06	ERBB2,GLI3,ITPKB,NFATC1,NOTCH1,NOTCH3,NTN1,PTBP1,TGFB1,ZFH X3
GO:0007169	transmembrane receptor protein tyrosine kinase signaling pathway	9	499	1.85E-06	AXL,CSF1,ERBB2,FGFR3,MAPKAPK2,PDGFRB,PTBP1,SREBF1,TGFB1

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GO:0007154	cell communication	21	5219	2.23E-06	AGT,AXL,CSF1,ERBB2,FGFR3,GLI3,ITPKB,LATS2,MAPKAPK2,MOV10,NFATC1,NOTCH1,NOTCH3,NTN1,PDGFRB,PTBP1,RNF43,SREBF1,TGFB1,TP53,UCP2
GO:0009966	regulation of signal transduction	17	3033	2.23E-06	AGT,AXL,CSF1,ERBB2,FGFR3,GLI3,ITPKB,LATS2,MAPKAPK2,NFATC1,NOTCH1,NOTCH3,PDGFRB,PTBP1,RNF43,TGFB1,TP53
GO:2000026	regulation of multicellular organismal development	14	1876	2.67E-06	AGT,AXL,CSF1,EHMT1,ERBB2,GLI3,ITPKB,MOV10,NFATC1,NOTCH1,NOTCH3,NTN1,PDGFRB,TGFB1
GO:0070887	cellular response to chemical stimulus	16	2672	2.83E-06	AGT,AXL,CSF1,ERBB2,FGFR3,ITPKB,LATS2,MAPKAPK2,NOTCH1,PDGFRB,PTBP1,SOD3,SREBF1,TGFB1,TP53,UCP2
GO:0007165	signal transduction	20	4738	3.10E-06	AGT,AXL,CSF1,ERBB2,FGFR3,GLI3,ITPKB,LATS2,MAPKAPK2,MOV10,NFATC1,NOTCH1,NOTCH3,NTN1,PDGFRB,PTBP1,RNF43,SREBF1,TGFB1,TP53
GO:0050896	response to stimulus	24	7824	4.38E-06	AGT,AXL,CSF1,EHMT1,ERBB2,FGFR3,GLI3,ITPKB,LATS2,MAPKAPK2,MOV10,NFATC1,NOTCH1,NOTCH3,NTN1,PDGFRB,PTBP1,RNF43,SOD3,SREBF1,TGFB1,TP53,UCP2,ZFH3

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GO:0051716	cellular response to stimulus	22	6212	4.67E-06	AGT,AXL,CSF1,ERBB2,FGFR3,GLI3,ITPKB,LATS2,MAPKAPK2,MOV10,NFATC1,NOTCH1,NOTCH3,NTN1,PDGFRB,PTBP1,RNF43,SOD3,SREBF1,TGFB1,TP53,UCP2
GO:0048522	positive regulation of cellular process	20	4898	4.89E-06	AGT,AXL,CSF1,ERBB2,FGFR3,GLI3,ITPKB,LATS2,MAPKAPK2,NFATC1,NOTCH1,NOTCH3,NTN1,PDGFRB,PTBP1,SREBF1,TGFB1,TP53,UCP2,ZFH3
GO:0009719	response to endogenous stimulus	12	1353	5.03E-06	AGT,ERBB2,FGFR3,LATS2,NOTCH1,PDGFRB,PTBP1,SREBF1,TGFB1,TP53,UCP2,ZFH3
GO:1903706	regulation of hemopoiesis	8	412	5.03E-06	AXL,CSF1,ERBB2,GLI3,ITPKB,MOV10,NOTCH1,TGFB1
GO:0048583	regulation of response to stimulus	18	3882	6.86E-06	AGT,AXL,CSF1,ERBB2,FGFR3,GLI3,ITPKB,LATS2,MAPKAPK2,NFATC1,NOTCH1,NOTCH3,PDGFRB,PTBP1,RNF43,TGFB1,TP53,UCP2
GO:0071495	cellular response to endogenous stimulus	11	1106	6.86E-06	AGT,ERBB2,FGFR3,LATS2,NOTCH1,PDGFRB,PTBP1,SREBF1,TGFB1,TP53,UCP2
GO:0048513	animal organ development	16	2926	6.97E-06	AGT,AXL,CSF1,ERBB2,FGFR3,GLI3,ITPKB,MAPKAPK2,NOTCH1,NOTCH3,NTN1,PDGFRB,SREBF1,TGFB1,UCP2,ZFH3
GO:0031100	animal organ regeneration	5	79	7.00E-06	AXL,GLI3,NOTCH1,TGFB1,UCP2
GO:0031399	regulation of protein modification process	13	1747	7.00E-06	AGT,CSF1,ERBB2,FGFR3,ITPKB,LATS2,MAPKAPK2,NOTCH1,PDGFRB,PTBP1,SREBF1,TGFB1,TP53

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GO:0008284	positive regulation of cell population proliferation	10	878	7.65E-06	AGT,CSF1,ERBB2,FGFR3,GLI3,NOTCH1,NOTCH3,NTN1,PDGFRB,TGFB1
GO:0031401	positive regulation of protein modification process	11	1149	7.88E-06	AGT,CSF1,ERBB2,FGFR3,MAPKAPK2,NOTCH1,PDGFRB,PTBP1,SREBF1,TGFB1,TP53
GO:0040008	regulation of growth	9	663	8.70E-06	AGT,CSF1,ERBB2,FGFR3,LATS2,NOTCH1,NTN1,TGFB1,TP53
GO:0048839	inner ear development	6	177	8.83E-06	GLI3,MAPKAPK2,NOTCH1,NTN1,PDGFRB,TGFB1
GO:0071310	cellular response to organic substance	14	2219	1.05E-05	AGT,AXL,CSF1,ERBB2,FGFR3,LATS2,MAPKAPK2,NOTCH1,PDGFRB,PTBP1,SREBF1,TGFB1,TP53,UCP2
GO:0000165	MAPK cascade	7	323	1.19E-05	AGT,ERBB2,FGFR3,ITPKB,MAPKAPK2,PDGFRB,TGFB1
GO:0022612	gland morphogenesis	5	94	1.19E-05	CSF1,GLI3,NOTCH1,NTN1,TGFB1
GO:0035556	intracellular signal transduction	12	1528	1.19E-05	AGT,AXL,ERBB2,FGFR3,ITPKB,LATS2,MAPKAPK2,NFATC1,NTN1,PDGFRB,TGFB1,TP53
GO:0070848	response to growth factor	8	507	1.35E-05	ERBB2,FGFR3,MAPKAPK2,NOTCH1,PDGFRB,PTBP1,TGFB1,ZFH3
GO:0010648	negative regulation of cell communication	11	1255	1.46E-05	AGT,ERBB2,GLI3,LATS2,NFATC1,NOTCH1,NOTCH3,RNF43,SREBF1,TGFB1,UCP2
GO:0023057	negative regulation of signaling	11	1258	1.46E-05	AGT,ERBB2,GLI3,LATS2,NFATC1,NOTCH1,NOTCH3,RNF43,SREBF1,TGFB1,UCP2
GO:0048589	developmental growth	7	340	1.46E-05	AGT,CSF1,FGFR3,GLI3,NOTCH1,PDGFRB,TGFB1

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GO:0060443	mammary gland morphogenesis	4	41	1.81E-05	CSF1, GLI3, NTN1, TGFB1
GO:0010033	response to organic substance	15	2815	1.86E-05	AGT, AXL, CSF1, ERBB2, FGFR3, LATS2, MAPKAPK2, NOTCH1, PDGFRB, PTBP1, SREBF1, TGFB1, TP53, UCP2, ZFH3
GO:0019220	regulation of phosphate metabolic process	12	1657	2.05E-05	AGT, CSF1, ERBB2, FGFR3, ITPKB, LATS2, MAPKAPK2, NOTCH1, PDGFRB, PTBP1, TGFB1, TP53
GO:1901201	regulation of extracellular matrix assembly	3	9	2.05E-05	AGT, NOTCH1, TGFB1
GO:0045937	positive regulation of phosphate metabolic process	10	1052	2.23E-05	AGT, CSF1, ERBB2, FGFR3, MAPKAPK2, NOTCH1, PDGFRB, PTBP1, TGFB1, TP53
GO:0001932	regulation of protein phosphorylation	11	1370	2.53E-05	AGT, CSF1, ERBB2, FGFR3, ITPKB, LATS2, MAPKAPK2, NOTCH1, PDGFRB, TGFB1, TP53
GO:0045926	negative regulation of growth	6	235	2.57E-05	AGT, FGFR3, NOTCH1, NTN1, TGFB1, TP53
GO:0046579	positive regulation of Ras protein signal transduction	4	49	2.83E-05	CSF1, ITPKB, NOTCH1, PDGFRB
GO:0051173	positive regulation of nitrogen compound metabolic process	15	2946	2.83E-05	AGT, CSF1, ERBB2, FGFR3, GLI3, MAPKAPK2, NFATC1, NOTCH1, NOTCH3, PDGFRB, PTBP1, SREBF1, TGFB1, TP53, ZFH3
GO:0051241	negative regulation of multicellular organismal process	10	1098	2.98E-05	AGT, AXL, ERBB2, GLI3, ITPKB, NFATC1, NOTCH1, NOTCH3, NTN1, TGFB1

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	positive regulation of macromolecule				AGT,ERBB2,GLI3,MAPKAPK2,NFATC1,NOTCH1,NOTCH3,PDGFRB,SREBF1,TGFB1,TP53,ZFHX3
GO:0010557	biosynthetic process	12	1758	3.26E-05	
GO:0001822	kidney development	6	251	3.40E-05	AGT,GLI3,NOTCH1,NOTCH3,PDGFRB,TGFB1
GO:0007568	aging	6	255	3.66E-05	AGT,PDGFRB,SREBF1,TGFB1,TP53,UCP2
	positive regulation of lipid metabolic process				
GO:0045834	metabolic process	5	135	3.76E-05	AGT,FGFR3,PDGFRB,SREBF1,TGFB1
	regulation of leukocyte differentiation				
GO:1902105	differentiation	6	261	4.06E-05	AXL,CSF1,ERBB2,GLI3,ITPKB,TGFB1
	positive regulation of cellular metabolic process				AGT,CSF1,ERBB2,FGFR3,GLI3,MAPKAPK2,NFATC1,NOTCH1,NOTCH3,PDGFRB,PTBP1,SREBF1,TGFB1,TP53,ZFHX3
GO:0031325	cellular metabolic process	15	3060	4.07E-05	
	positive regulation of leukocyte differentiation				
GO:1902107	leukocyte differentiation	5	139	4.07E-05	AXL,CSF1,GLI3,ITPKB,TGFB1
	positive regulation of macromolecule metabolic process				AGT,CSF1,ERBB2,FGFR3,GLI3,MAPKAPK2,NFATC1,NOTCH1,NOTCH3,PDGFRB,PTBP1,SREBF1,TGFB1,TP53,ZFHX3
GO:0010604	process	15	3081	4.22E-05	
	positive regulation of gene expression				AGT,CSF1,ERBB2,GLI3,MAPKAPK2,NFATC1,NOTCH1,NOTCH3,SREBF1,TGFB1,TP53,ZFHX3
GO:0010628	expression	12	1826	4.22E-05	
	positive regulation of cellular biosynthetic process				AGT,ERBB2,GLI3,MAPKAPK2,NFATC1,NOTCH1,NOTCH3,PDGFRB,SREBF1,TGFB1,TP53,ZFHX3
GO:0031328	process	12	1846	4.55E-05	
	response to external stimulus				AGT,AXL,ERBB2,GLI3,MAPKAPK2,NOTCH1,NOTCH3,PDGFRB,SREBF1,TGFB1,TP53,UCP2
GO:0009605	stimulus	12	1857	4.72E-05	

GO:0048731	system development	17	4144	4.72E-05	AGT,AXL,CABLES1,CSF1,ERBB2,FGFR3,GLI3,ITPKB,MAPKAPK2,NOTCH1,NOTCH3,NTN1,PDGFRB,SREBF1,TGFB1,UCP2,ZFH3
GO:0007275	multicellular organism development	18	4726	4.90E-05	AGT,AXL,CABLES1,CSF1,ERBB2,FGFR3,GLI3,ITPKB,MAPKAPK2,NOTCH1,NOTCH3,NTN1,PDGFRB,SREBF1,TGFB1,TP53,UCP2,ZFH3
GO:0045597	positive regulation of cell differentiation	9	908	4.90E-05	AGT,AXL,CSF1,GLI3,ITPKB,NOTCH1,NTN1,TGFB1,ZFH3
GO:0006468	protein phosphorylation negative regulation of Wnt signaling pathway	9	923	5.34E-05	AGT,AXL,ERBB2,FGFR3,ITPKB,LATS2,MAPKAPK2,PDGFRB,TGFB1
GO:0030178	positive regulation of protein kinase B signaling	5	155	5.72E-05	GLI3,LATS2,NFATC1,NOTCH1,RNF43
GO:0051897	positive regulation of protein phosphorylation	5	157	6.01E-05	AXL,ERBB2,FGFR3,PDGFRB,TGFB1
GO:0001934	regulation of lymphocyte differentiation	9	941	6.02E-05	AGT,CSF1,ERBB2,FGFR3,MAPKAPK2,NOTCH1,PDGFRB,TGFB1,TP53
GO:0045619	oligodendrocyte differentiation	5	158	6.02E-05	AXL,ERBB2,GLI3,ITPKB,TGFB1
GO:0048709	cellular response to growth factor stimulus	4	66	6.02E-05	ERBB2,GLI3,NOTCH1,TGFB1
GO:0071363	regulation of transferase activity	7	477	6.51E-05	ERBB2,FGFR3,MAPKAPK2,NOTCH1,PDGFRB,PTBP1,TGFB1
GO:0051338		9	964	6.89E-05	AGT,CSF1,ERBB2,FGFR3,LATS2,MAPKAPK2,PDGFRB,TGFB1,TP53

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GO:0042127	regulation of cell population proliferation	11	1594	6.94E-05	AGT,CSF1,ERBB2,FGFR3,GLI3,NOTCH1,NOTCH3,NTN1,PDGFRB,TGFB1,TP53
GO:0071496	cellular response to external stimulus	6	305	7.04E-05	AGT,AXL,SREBF1,TGFB1,TP53,UCP2
GO:0072012	glomerulus vasculature development	3	18	7.04E-05	NOTCH1,NOTCH3,PDGFRB
GO:0035265	organ growth	4	71	7.13E-05	AGT,FGFR3,NOTCH1,PDGFRB
GO:0051094	positive regulation of developmental process	10	1286	7.70E-05	AGT,AXL,CSF1,GLI3,ITPKB,NOTCH1,NTN1,PDGFRB,TGFB1,ZFH3
GO:0031065	positive regulation of histone deacetylation	3	19	7.74E-05	SREBF1,TGFB1,TP53
GO:0008152	metabolic process	24	9569	7.94E-05	AGT,AXL,CSF1,EHMT1,ERBB2,FGFR3,GLI3,H6PD,ITPKB,LATS2,MAPKAPK2,MOV10,NFATC1,NOTCH1,NOTCH3,PDGFRB,PTBP1,RNF43,SOD3,SREBF1,TGFB1,TP53,UCP2,ZFH3
GO:0051253	negative regulation of RNA metabolic process	10	1303	8.40E-05	EHMT1,GLI3,MAPKAPK2,NOTCH1,NOTCH3,PTBP1,SREBF1,TGFB1,TP53,ZFH3
GO:0070482	response to oxygen levels	6	321	8.58E-05	NOTCH1,PDGFRB,SOD3,TGFB1,TP53,UCP2
GO:0010629	negative regulation of gene expression	11	1670	9.50E-05	AGT,EHMT1,GLI3,MOV10,NOTCH1,NOTCH3,PTBP1,SREBF1,TGFB1,TP53,ZFH3

Table S7. CMC_DLPCF WGCNA_TGF β 1 coexpressed_SCZ_enrichment.Process_cluster_FDR > 10e-5

term ID	term description	observed gene count	background gene count	false discovery rate	matching proteins in network (labels)
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Appendix 1 to Pan S, Zhou Y, Yan L, et al. TGF- β 1 is associated with deficits in cognition and cerebral cortical thickness in first-episode schizophrenia. *J Psychiatry Neurosci* 2022. doi: 10.1503/jpn.210121

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GO:0030198	extracellular matrix organization	9	296	1.33E-10	BCAN,BGN,FBLN1, FN1 ,HSPG2,ITGA7,LAMB2,NCAN,TGFB1
GO:0006027	glycosaminoglycan catabolic process	5	62	3.89E-07	BCAN,BGN,HSPG2,NCAN,TGFB1
GO:0030203	glycosaminoglycan metabolic process	5	153	1.80E-05	BCAN,BGN,HSPG2,NCAN,TGFB1

Table S8. Genes coexpressed with TGF- β 1 in the DLPFCs of healthy subjects and SCZ patients

	Healthy controls	SCZ patients
Non-overlapping genes	<i>SREBF1, PDGFRB, NTN1, MAPKAPK2, MOV10, RNF43, AGT, ERBB2, FGFR3, PTBP1, ZFH3, UCP2, CABLES1, ITPKB, NFATC1, SOD3, LATS2, NOTCH1, GLI3, H6PD, EHMT1, NOTCH3, TP53</i>	<i>BCAN, FN1, TLN1, WFS1, ITGA7, LAMB2, BGN, FBLN1, PXN, HSPG2, NCAN</i>
Overlapping genes	<i>AXL, CSF1</i>	<i>AXL, CSF1</i>
Biological Process (GO) and FDR	GO:0007166: cell surface receptor signaling pathway, FDR: 1.37e-08 GO:0050793: regulation of developmental process, FDR: 3.39e-08	GO:0030198: extracellular matrix organization, FDR: 1.33e-10

Table S9. Average thickness of the visual cortex and associated cortical areas

Area (mm)	SCZ	Controls	<i>t</i>	<i>Adj.p</i>
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L-LOC thickness	2.18(0.13)	2.28(0.99)	-3.9	<0.001
R-LOC thickness	2.23(0.15)	2.34(0.13)	-3.74	<0.001
L-IPC thickness	2.49(0.15)	2.59(0.98)	-4.4	<0.001
R-IPC thickness	2.49(0.16)	2.63(0.11)	-5	<0.001
L-SMG thickness	2.58(0.13)	2.70(0.16)	-4.1	<0.001
R-SMG thickness	2.56(0.14)	2.68(0.11)	-4.56	<0.001

All data were reported as mean (SD). LOC: Lateral occipital cortex; IPC: Inferior parietal cortex; SMG: Supramarginal gyrus.