Geneset	stat	num.genes	pval	p.adj	gene.vals
Schizophrenia	0.03671360	1612	1.810e-06	1.767e-02	RGS2:9 NDUFV1:10 CLDN1:15 PPIA:17 CIB2:27 MAGI1:42
Ventricular Septal Defects	-0.09263182	212	3.602e-06	1.767e-02	ARHGAP31:42 EP300:131 LRP5:153 CCDC22:210 EXT2:348 FBN2:352
Autistic Disorder	0.05441537	606	5.929e-06	1.939e-02	EIF3A:12 SND1:30 HYDIN:46 CADPS2:58 NTS:75 FOXP1:81
Alcoholic Intoxication, Chronic	0.06429785	375	2.144e-05	3.113e-02	NTS:75 AVP:182 HTR1B:191 HDAC2:212 MTHFR:266 GH1:270
Hyperinsulinism	0.06843016	336	1.806e-05	3.113e-02	TSC22D3:11 CIB2:27 LECT2:56 CAV1:65 FAIM2:67 IDE:99
Neuroblastoma	0.03481667	1436	1.662e-05	3.113e-02	STAT5B:26 CAV1:65 FAIM2:67 BIN1:73 NTS:75 FOXP1:81
Pain	0.06117556	414	2.221e-05	3.113e-02	NTS:75 P2RY1:138 RAB7B:140 AVP:182 ADRA2C:197 TBPL1:240
Renal salt wasting	-0.30085310	16	3.100e-05	3.802e-02	BSND:294 SLC12A1:403 CLCNKA:501 CYP11A1:770 CLCNKB:916 HSD3B2:98
Depressive disorder	0.04730531	642	5.201e-05	5.669e-02	NTS:75 TLE1:168 AVP:182 M6PR:186 HTR1B:191 ADRA2C:197
Atrial Fibrillation	0.07302871	243	9.393e-05	5.759e-02	CAV1:65 NDUFS4:152 NEURL1:178 ADRA2C:197 SCN5A:231 TIMP2:238
Central neuroblastoma	0.03204628	1398	8.958e-05	5.759e-02	STAT5B:26 CAV1:65 FAIM2:67 BIN1:73 NTS:75 FOXP1:81
Channelopathies	0.16887401	47	6.254e-05	5.759e-02	SCN5A:231 TBPL1:240 HCN1:255 KCNJ3:352 KCNJ5:618 CNGA3:682
Decreased platelet count	-0.09650374	139	8.866e-05	5.759e-02	GP9:246 ERCC4:411 SLX4:462 ABCD4:528 SH2D1A:534 NHEJ1:692
Mental Depression	0.05146355	505	8.629e-05	5.759e-02	NTS:75 TLE1:168 AVP:182 M6PR:186 HTR1B:191 ADRA2C:197
Polyhydramnios	-0.10836526	111	8.230e-05	5.759e-02	EP300:131 BSND:294 SLC12A1:403 MYOD1:433 SPINT2:459 CLCNKA:501
Thrombocytopenia	-0.06704423	292	8.747e-05	5.759e-02	GP9:246 NR1I2:289 NAAA:410 ERCC4:411 F8:439 SLX4:462
Autism Spectrum Disorders	0.05134411	480	1.319e-04	6.813e-02	NDUFV1:10 SND1:30 CADPS2:58 FOXP1:81 TTC25:164 AVP:182
Kartagener Syndrome	0.11497333	93	1.299e-04	6.813e-02	FOXJ1:25 HYDIN:46 CCDC65:52 DNAH6:54 CDR2:100 TTC25:164
Post-Traumatic Stress Disorder	0.11397734	95	1.262e-04	6.813e-02	TSC22D3:11 STAT5B:26 OPRM1:517 NOS1:623 ENDOU:641 SGK1:885
Amino Acid Metabolism, Inherited Disorde	-0.31634197	12	1.481e-04	7.266e-02	ARG1:333 D2HGDH:969 PRODH:1361 GAMT:1846 MAT1A:1885 SECISBP2:20
Diabetes Mellitus, Insulin-Dependent	0.03961672	739	2.932e-04	1.027e-01	SKIV2L:7 RGS2:9 STAT5B:26 IL37:74 IDE:99 SELENOS:172
Epilepsy, Temporal Lobe	0.08367025	160	2.694e-04	1.027e-01	GNA14:5 BIN1:73 AVP:182 HCN1:255 SLC12A2:319 LGI1:369
Achromatopsia 1	0.30268889	12	2.830e-04	1.027e-01	FRMD7:160 CNGA3:682 PAX6:919 PNPLA6:926 GNAT2:1109 PDE6C:1325
Emotional Stress	0.35083785	9	2.678e-04	1.027e-01	AVP:182 DRD2:954 MSH2:1160 OXT:1518 RCAN1:2569 HTR2C:2725
Hodgkin Disease	0.04822342	493	2.760e-04	1.027e-01	STAT5B:26 SND1:30 FOXP1:81 EBF1:156 TIMP2:238 MTHFR:266
Hypernatriuria	-0.43261385	6	2.427e-04	1.027e-01	BSND:294 CLCNKA:501 CYP11A1:770 CLCNKB:916 HSD3B2:950 AVPR2:319
Psychotic Disorders	0.06387430	274	2.912e-04	1.027e-01	NTS:75 CHN2:130 NDUFS4:152 AVP:182 HTR1B:191 HDAC2:212
Recurrent major depressive episodes	0.20679516	26	2.634e-04	1.027e-01	AVP:182 MTHFR:266 SYNE1:552 GRM7:968 CHRM2:1096 APOA4:1536
Diabetes Mellitus, Non-Insulin-Dependent	0.03003733	1346	3.051e-04	1.032e-01	LINGO2:2 PPIA:17 STAT5B:26 CAV1:65 FAIM2:67 IL37:74
Otitis Media	-0.11382635	84	3.160e-04	1.033e-01	CTSB:95 TGIF1:116 CYBB:325 TBX1:607 ADAMTS13:719 PHEX:739
Familial migraine	0.39144377	7	3.351e-04	1.060e-01	HTR1B:191 KCNA3:788 KCNK18:857 CSNK1D:1811 SLC4A4:2287 ATP1A2:24
AIDS Dementia Complex	0.16858839	37	3.895e-04	1.061e-01	KCNK1:269 IGF1:408 OPRM1:517 SLC8A1:535 KCNA3:788 NEFL:1196
Mental disorders	0.06230147	281	3.466e-04	1.061e-01	MAGI1:42 CADPS2:58 HTR1B:191 MTHFR:266 EPHB2:470 SLITRK1:497
Neuralgia	0.11295157	83	3.809e-04	1.061e-01	PRKCG:215 HCN1:255 MDH2:290 OPRM1:517 KCNA3:788 DRD2:954
Retinal pigment epithelial mottling	0.36414744	8	3.616e-04	1.061e-01	PRPH2:148 ERCC8:342 ABCA4:915 CACNA2D4:1113 CTNS:1449 ELOVL4:15:
Tracheoesophageal Fistula	-0.15647788	43	3.876e-04	1.061e-01	CYBB:325 ERCC4:411 SLX4:462 ITGA8:504 USB1:751 FANCG:898
Bilateral cataracts (disorder)	0.10053937	103	4.311e-04		CRYBA4:59 CRYBA1:297 CLPB:466 BFSP1:556 EPHA2:657 MIP:799
Hepatomegaly	-0.05647693	332	4.347e-04		GFM1:37 CYP1A1:44 LRP5:153 ALG1:205 AMACR:232 ACOX1:247
Cataract, Central Saccular, With Sutural	0.41027345	6		1.198e-01	CRYBA1:297 MIP:799 CRYGS:820 GJA8:832 BFSP2:1310 CRYBB2:4533
Andersen Syndrome	0.21440978	22		1.198e-01	SCN5A:231 MTHFR:266 KCNJ5:618 KCNA3:788 KCNJ12:958 PRKAR1A:964

99 6.110e-26 3.964e-22

261 8.105e-12 1.753e-08

p.adj

DECR2:5 RPUSD1:15 WFIKKN1:28 PGAP6:45 MCRIP2:84 TRAF7:102

GPR83:38 P2RY1:138 GLRB:162 HTR1B:191 ADRA2C:197 GH1:270

982 2.767e-12 8.976e-09 GNA14:5 FOXJ1:25 TCEA3:47 KCNAB1:49 SLC26A5:55 CLIP4:107

554 1.105e-11 1.793e-08 SLC26A5:55 POU2F3:105 KCNH5:117 PRDM14:134 DKKL1:161 NCMAP:166

stat num.genes pval

-0.30656540

0.08482257

0.06650965

Geneset

NIKOLSKY_BREAST_CANCER_16P13_AMPLICON

MIKKELSEN_MEF_HCP_WITH_H3K27ME3

BENPORATH_ES_WITH_H3K27ME3

KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERAC 0.12319896

EnrichmentHsSymbolsFile2 Top pathways by permulation

REACTOME_GPCR_LIGAND_BINDING	0.09562772	397	7.231e-11	9.383e-08	NTS:75 TAS2R41:97 P2RY1:138 AVP:182 HTR1B:191 ADRA2C:197
REACTOME_CLASS_A_1_RHODOPSIN_LIKE_RECEPT	0.10826196	296	1.652e-10	1.786e-07	NTS:75 P2RY1:138 AVP:182 HTR1B:191 ADRA2C:197 GPER1:198
BLALOCK_ALZHEIMERS_DISEASE_DN	0.05599409	1127	3.559e-10	3.299e-07	GNA14:5 RGS2:9 NNT:14 PPIA:17 KIFBP:45 KCNAB1:49
REACTOME_SIGNALING_BY_GPCR	0.07306176	624	5.846e-10	4.741e-07	GNA14:5 RGS2:9 PDE1C:20 GPR83:38 NTS:75 GPR27:90
BENPORATH_EED_TARGETS	0.05586783	922	1.196e-08	7.869e-06	GNA14:5 FOXJ1:25 TCEA3:47 KCNAB1:49 SLC8A3:80 CLIP4:107
REACTOME_G_ALPHA_I_SIGNALLING_EVENTS	0.10191345	265	1.213e-08	7.869e-06	GNA14:5 PDE1C:20 TAS2R41:97 RGS22:142 HTR1B:191 ADRA2C:197
REACTOME_NEURONAL_SYSTEM	0.08012928	379	9.413e-08	5.552e-05	KCNAB1:49 KCNH5:117 KCNJ14:118 CACNA1B:121 GLRB:162 PRKCG:215
REACTOME_AMINE_LIGAND_BINDING_RECEPTORS	0.23839890	41	1.286e-07	6.953e-05	HTR1B:191 ADRA2C:197 ADRB1:282 TAAR5:442 HTR4:635 CHRM4:661
REACTOME_PEPTIDE_LIGAND_BINDING_RECEPTOR	0.11656653	168	1.935e-07	8.969e-05	NTS:75 AVP:182 GPER1:198 EDNRA:287 CCR4:501 OPRM1:517
REACTOME_CARDIAC_CONDUCTION	0.13863595	119	1.801e-07	8.969e-05	SLC8A3:80 KCNJ14:118 SCN5A:231 AHCYL1:257 KCNK1:269 KCNIP3:320
CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_2	0.07630705	395	2.142e-07	9.266e-05	ODF2:16 CFAP69:19 FOXJ1:25 SNTN:35 CCDC65:52 DNAH6:54
REACTOME_PEROXISOMAL_LIPID_METABOLISM	-0.27479402	29	3.034e-07	1.194e-04	DECR2:5 ACOX3:75 NUDT7:133 AMACR:232 ACOX1:247 ACOT8:429
WP_GPCRS_CLASS_A_RHODOPSINLIKE	0.10357687	206	3.129e-07	1.194e-04	GPR83:38 GPR27:90 P2RY1:138 HTR1B:191 ADRA2C:197 GPER1:198
REACTOME_POTASSIUM_CHANNELS	0.15539461	90	3.545e-07	1.278e-04	KCNAB1:49 KCNH5:117 KCNJ14:118 HCN1:255 KCNK1:269 KCNJ3:352
BENPORATH_PRC2_TARGETS	0.06175446	580	4.298e-07	1.432e-04	GNA14:5 FOXJ1:25 TCEA3:47 KCNAB1:49 TAFA4:109 CACNA1B:121
KEGG_PEROXISOME	-0.16548894	78	4.414e-07	1.432e-04	DECR2:5 ACOX3:75 PRDX5:110 PXMP4:152 AMACR:232 ACOX1:247
REACTOME_MUSCLE_CONTRACTION	0.10783909	183	5.070e-07	1.566e-04	SLC8A3:80 KCNJ14:118 TCAP:124 SCN5A:231 AHCYL1:257 KCNK1:269
BENPORATH_SUZ12_TARGETS	0.04881593	917	6.762e-07	1.774e-04	GNA14:5 TSC22D3:11 FOXJ1:25 GPR83:38 TCEA3:47 KCNAB1:49
MEISSNER_NPC_HCP_WITH_H3K4ME2_AND_H3K27M	0.07964653	331	6.834e-07	1.774e-04	CADPS2:58 GPR27:90 ADRA2C:197 SCN5A:231 TLX3:244 HCN1:255
WP_PRADERWILLI_AND_ANGELMAN_SYNDROME	0.19260982	56	6.231e-07	1.774e-04	GABRR2:521 MDM4:543 GABRR1:723 NIPA2:831 TUBGCP5:1004 FSHB:1097
WP_MONOAMINE_GPCRS	0.25438354	32	6.371e-07	1.774e-04	HTR1B:191 ADRA2C:197 ADRB1:282 HTR4:635 CHRM4:661 HTR2A:729
MIKKELSEN_NPC_HCP_WITH_H3K27ME3	0.07899812	331	8.411e-07	2.099e-04	GPR27:90 POU2F3:105 ADRA2C:197 SCN5A:231 TLX3:244 HCN1:255
SENGUPTA_NASOPHARYNGEAL_CARCINOMA_DN	0.08507649	280	1.024e-06	2.461e-04	FOXJ1:25 SNTN:35 HYDIN:46 TCEA3:47 CCDC65:52 CCDC113:113
REACTOME_G_ALPHA_S_SIGNALLING_EVENTS	0.12198281	134	1.114e-06	2.582e-04	GPR83:38 GPR27:90 AVP:182 GPER1:198 ADRB1:282 FSHR:356
KIM_ALL_DISORDERS_CALB1_CORR_UP	0.06281892	510	1.343e-06	3.004e-04	NDUFV1:10 KIFBP:45 KCNAB1:49 CRMP1:110 UQCRFS1:158 GLRB:162
WP_RAC1PAK1P38MMP2_PATHWAY	0.16736108	66	2.604e-06	5.631e-04	STAT5B:26 CTNNB1:103 TEK:416 CRK:462 NOS1:623 DOK2:734
WP_NEUROINFLAMMATION_AND_GLUTAMATERGIC_S	0.11624503	136	2.933e-06	6.139e-04	PRKCG:215 GRIK1:396 IGF1:408 NOS1:623 GRIK2:658 SLC38A2:852
REACTOME_VOLTAGE_GATED_POTASSIUM_CHANNEL	0.20740768	42	3.321e-06	6.734e-04	KCNAB1:49 KCNH5:117 KCNF1:373 KCND1:460 KCND2:629 KCNA3:788
REACTOME_PEROXISOMAL_PROTEIN_IMPORT	-0.18090605	55	3.497e-06	6.876e-04	DECR2:5 ACOX3:75 NUDT7:133 AMACR:232 ACOX1:247 ECH1:366
REACTOME_DISEASES_OF_METABOLISM	-0.08989779	223	3.894e-06	7.431e-04	NOTCH1:65 CYP24A1:68 MCCC1:74 ABCA3:80 ALG1:205 SEMA5A:306
KEGG_LYSOSOME	-0.12036767	110	1.315e-05	2.437e-03	CTSB:95 LAMP3:194 ATP6V0D1:372 LAMP2:394 HYAL1:437 ARSG:525
MATZUK_SPERMATOZOA	0.12197484	102	2.107e-05	3.796e-03	ADAD1:34 SPAG16:89 CREM:95 LDHC:106 FHL5:108 AGFG1:196
REACTOME_FATTY_ACID_METABOLISM	-0.09680250	158	2.746e-05	4.815e-03	DECR2:5 HACD3:7 CYP1A1:44 ACOX3:75 ACOT13:125 NUDT7:133
REACTOME_DNA_DOUBLE_STRAND_BREAK_REPAIR	-0.10518919	130	3.516e-05	6.003e-03	POLK:258 ERCC4:411 RAD51D:427 PIAS4:453 SLX4:462 BAP1:644
REACTOME_DNA_REPAIR	-0.07203303	276	3.981e-05	6.623e-03	MUTYH:38 INO80D:51 EP300:131 POLK:258 ALKBH2:273 ERCC4:411
WP_PEPTIDE_GPCRS	0.14186422	70	4.091e-05	6.636e-03	EDNRA:287 FSHR:356 CCR4:501 OPRM1:517 NPY1R:542 CCR1:593

p.adj

1.853e-07 6.390e-04

2.372e-07 6.390e-04

7.495e-07 1.346e-03

1.998e-06 2.691e-03

6.751e-06 5.196e-03

5.878e-06 5.196e-03

6.567e-06 5.196e-03

1.333e-05 6.531e-03

1.121e-05 6.531e-03

gene.vals

NUDT7:133 ACADS:192 ACOX1:247 ABHD3:262 ACOT8:429 CPT2:489

KCNAB1:49 CAV1:65 SCN5A:231 KCNK1:269 TUSC3:321 KCNJ3:352

KCNAB1:49 KCNH5:117 HCN1:255 KCNK1:269 KCNJ3:352 KCNF1:373

KCNH5:117 KCNJ14:118 HCN1:255 KCNK1:269 SLC12A2:319 KCNJ3:352

HTR1B:191 OPRM1:517 NPY1R:542 CCR1:593 HTR4:635 CHRM4:661

LCMT2:40 MRM1:86 DTWD1:97 PUS7L:468 WDR4:481 TRDMT1:490

HCN1:255 GRIK1:396 CACNG7:616 SLC38A2:852 DRD2:954 PTK2B:961

CACNA1B:121 UNC119:145 GLRB:162 HTR1B:191 EXOC4:192 SNAPIN:228

HYDIN:46 TEKT5:146 NME5:222 SPEF2:485 CFAP70:503 SPAG6:538

num.genes

58

157

119

47

47

54

254

47

stat

-0.19808537

0.11981291

0.13157259

0.12008044

0.18990762

-0.19114603

0.17745290

0.07969122

0.18531102

Geneset

Fatty Acid Catabolic Process (GO:0009062

Metal Ion Transport (GO:0030001)

Potassium Ion Transport (GO:0006813)

Potassium Ion Transmembrane Transport (G

G Protein-Coupled Receptor Signaling Pat

RNA Modification (GO:0009451)

Regulation Of Synaptic Transmission, Glu

Chemical Synaptic Transmission (GO:00072

Cilium Movement (GO:0003341)

pval

GO_Biological_Process_2023 Top pathways by permulation

-0.18407774	47	1.282e-05	6.531e-03	DECR2:5 ACOX3:75 ACADS:192 AMACR:232 ACOX1:247 ACOT8:429
-0.13416802	89	1.249e-05	6.531e-03	FBH1:240 SFR1:253 ERCC4:411 RAD51D:427 SLX4:462 SWSAP1:614
0.09385747	180	1.488e-05	6.682e-03	CACNA1B:121 UNC119:145 GLRB:162 HTR1B:191 EXOC4:192 GRIK1:396
0.23828460	26	2.618e-05	1.007e-02	GPER1:198 CHMP3:699 VPS4A:855 CHMP7:1048 TARDBP:1055 NSFL1C:1207
0.17230707	50	2.531e-05	1.007e-02	KCNAB1:49 CABP5:68 PIRT:180 HCN1:255 EDNRA:287 CACNB1:403
0.26336210	21	2.953e-05	1.061e-02	RCC1:13 CHMP3:699 VPS4A:855 CHMP7:1048 NSFL1C:1207 CHMP4C:1804
-0.11633290	105	3.925e-05	1.322e-02	MCMDC2:197 FBH1:240 SFR1:253 ERCC4:411 RAD51D:427 SLX4:462
0.17260768	46	5.172e-05	1.431e-02	HTR1B:191 OPRM1:517 NPY1R:542 CHRM4:661 HTR1D:762 OPRL1:912
-0.09297876	158	5.752e-05	1.431e-02	FBH1:240 SFR1:253 ERCC4:411 RAD51D:427 PIAS4:453 SLX4:462
0.12032186	96	4.742e-05	1.431e-02	SLC8A3:80 KCNJ14:118 CACNA1B:121 SCN5A:231 SLC12A2:319 KCNJ3:352
0.07115212	273	5.634e-05	1.431e-02	NNT:14 SLC8A3:80 KCNH5:117 SCN5A:231 HCN1:255 KCNK1:269
0.14428612	65	5.844e-05	1.431e-02	FGR:264 TEK:416 EPHB2:470 PRLR:617 PTK2B:961 ABI3:1050
-0.14408863	66	5.252e-05	1.431e-02	LCMT2:40 DTWD1:97 THUMPD2:136 TRMT44:244 TRMT10A:369 THADA:425
0.14557495	63	6.541e-05	1.532e-02	GPR83:38 NTS:75 GLRB:162 OPRM1:517 RXFP3:582 OPRL1:912
0.18243516	39	8.136e-05	1.827e-02	SHISA8:305 PRRT1:337 OPRM1:517 CACNG7:616 PTK2B:961 CNIH3:2063
0.14515088	61	8.952e-05	1.929e-02	HCN1:255 SHISA8:305 PRRT1:337 WNK3:346 PHB2:347 OPRM1:517
-0.06879692	274	9.569e-05	1.983e-02	MUTYH:38 FBH1:240 ALKBH2:273 MGME1:274 ERCC4:411 RAD51D:427
0.21065273	28	1.149e-04	2.292e-02	KCNAB1:49 KCNIP3:320 NOS1:623 VIP:789 KCNAB2:815 DRD2:954
0.05926340	361	1.212e-04	2.332e-02	CIB2:27 IL37:74 LCP1:91 P2RY1:138 LAMTOR4:163 SELENOS:172
0.09724065	129	1.413e-04	2.624e-02	EHD3:8 RDX:36 CAV1:65 P2RY1:138 PRPH2:148 KCNIP3:320
-0.36474397	9	1.512e-04	2.716e-02	INSC:362 SHROOM3:374 SHROOM2:656 CELSR1:1765 MAL:1864 VANGL2:2066
0.16647691	43	1.600e-04	2.781e-02	CAV1:65 BIN1:73 SCN5A:231 HCN1:255 KCNJ3:352 SLC9A1:400
-0.18757746	33	1.933e-04	3.254e-02	WDR46:265 NOB1:312 UTP6:622 NOL11:725 SPPL2B:962 NGDN:1076
-0.35702471	9	2.082e-04	3.317e-02	GLA:857 NEU1:1230 NEU3:1277 NEU4:1372 HEXB:1598 GM2A:1985
-0.11787246	83	2.093e-04	3.317e-02	DECR2:5 CYP1A1:44 MCCC1:74 AMACR:232 NAAA:410 ACSL4:428
-0.10783731	96	2.665e-04	4.102e-02	GADD45GIP1:3 GFM1:37 MRPL58:71 QRSL1:72 MTIF3:149 GFM2:280
0.18851776	31	2.819e-04	4.220e-02	RGS2:9 SCN5A:231 SLC9A1:400 SLC8A1:535 NOS1:623 PRKACA:1406
0.19713713	28	3.069e-04	4.352e-02	SCN5A:231 SLC8A1:535 SCN3B:937 DMD:1629 KCNE2:2086 PKP2:2170
-0.17415533	36	3.011e-04	4.352e-02	LCMT2:40 THUMPD2:136 TRMT44:244 TRMT10A:369 THADA:425 WDR4:481
-0.15139589	47	3.325e-04	4.594e-02	ACADS:192 ACOX1:247 CPT2:489 PHYH:491 ABCD4:528 HACL1:554
0.16748158	38	3.558e-04	4.793e-02	CAV1:65 BIN1:73 SCN5A:231 HCN1:255 KCNJ3:352 KCNJ5:618
	-0.13416802 0.09385747 0.23828460 0.17230707 0.26336210 -0.11633290 0.17260768 -0.09297876 0.12032186 0.07115212 0.14428612 -0.14408863 0.14557495 0.18243516 0.14515088 -0.06879692 0.21065273 0.05926340 0.09724065 -0.36474397 0.16647691 -0.18757746 -0.35702471 -0.11787246 -0.10783731 0.18851776 0.19713713 -0.17415533 -0.15139589	-0.13416802 89 0.09385747 180 0.23828460 26 0.17230707 50 0.26336210 21 -0.11633290 105 0.17260768 46 -0.09297876 158 0.12032186 96 0.07115212 273 0.14428612 65 -0.14408863 66 0.14557495 63 0.18243516 39 0.14515088 61 -0.06879692 274 0.21065273 28 0.05926340 361 0.09724065 129 -0.36474397 9 0.16647691 43 -0.18757746 33 -0.18757746 83 -0.11787246 83 -0.10783731 96 0.18851776 31 0.19713713 28 -0.17415533 36 -0.15139589 47	-0.13416802 89 1.249e-05 0.09385747 180 1.488e-05 0.23828460 26 2.618e-05 0.17230707 50 2.531e-05 0.26336210 21 2.953e-05 -0.11633290 105 3.925e-05 0.17260768 46 5.172e-05 -0.09297876 158 5.752e-05 0.12032186 96 4.742e-05 0.07115212 273 5.634e-05 0.14428612 65 5.844e-05 0.14428612 65 5.844e-05 0.144557495 63 6.541e-05 0.18243516 39 8.136e-05 0.14515088 61 8.952e-05 0.06879692 274 9.569e-05 0.21065273 28 1.149e-04 0.05926340 361 1.212e-04 0.09724065 129 1.413e-04 -0.36474397 9 1.512e-04 0.18757746 33 1.933e-04 -0.10783731 96	-0.13416802 89 1.249e-05 6.531e-03 0.09385747 180 1.488e-05 6.682e-03 0.23828460 26 2.618e-05 1.007e-02 0.17230707 50 2.531e-05 1.007e-02 0.26336210 21 2.953e-05 1.061e-02 -0.11633290 105 3.925e-05 1.431e-02 0.17260768 46 5.172e-05 1.431e-02 0.09297876 158 5.752e-05 1.431e-02 0.12032186 96 4.742e-05 1.431e-02 0.14428612 65 5.844e-05 1.431e-02 0.1442863 66 5.252e-05 1.431e-02 0.144557495 63 6.541e-05 1.532e-02 0.18243516 39 8.136e-05 1.827e-02 0.14515088 61 8.952e-05 1.938e-02 0.21065273 28 1.149e-04 2.292e-02 0.05926340 361 1.212e-04 2.332e-02 0.09724065 129 1.413e-04 2.624