

GeDiPNet Cluster 2 -- Top Shared Genes

Curated genes (disease_gdp) linked to 2 or more of this cluster's member diseases, most widely shared first. Data as of: 2026-10-08 03:15:01. · Rows: 500 · Generated: 2026-10-08 06:16:18

Note: PDF export is limited to the first 500 rows. Use TSV or CSV format for the complete export.

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
FOXP2	24	78	Alzheimer disease; Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Coronary artery disease; Depression; Diabetes mellitus type 2; Endometriosis; Gastroesophageal reflux disease; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia; Substance abuse
MAD1L1	24	78	Alzheimer disease; Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Heart failure; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Migraine; Mood disorder; Myocardial infarction; Neurotic disorder; Obesity; Parkinson disease; Post-traumatic stress disorder; Schizophrenia; Substance abuse
SLC39A8	23	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Heart failure; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Osteoarthritis; Parkinson disease; Post-traumatic stress disorder; Schizophrenia; Stroke
BDNF	22	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Cannabis abuse; Color vision deficiency; Coronary artery disease; Depression; Diabetes mellitus type 2; Gout; Heart failure; Major depressive disorder; Metabolic syndrome; Mood disorder; Obesity; Osteoarthritis; Parkinson disease; Post-traumatic stress disorder; Schizophrenia; Substance abuse; Willis-ekbom disease
RBFox1	21	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gout; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Post-traumatic stress disorder; Schizophrenia; Scoliosis; Substance abuse
SORCS3	21	78	Alzheimer disease; Anxiety disorder; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cardiovascular disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Hypertension; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obesity; Post-traumatic stress disorder; Schizophrenia; Scoliosis; Substance abuse
TNF	21	78	Alzheimer disease; Anxiety disorder; Bipolar disorder; Congestive heart failure; Coronary artery disease; Depression; Diabetes mellitus type 2; Endometriosis; Gout; Heart failure; Hypertension; Major depressive disorder; Migraine; Mood disorder; Myocardial infarction; Obesity; Osteoarthritis; Parkinson disease; Schizophrenia; Stroke; Venous thromboembolism
APOE	20	78	Alzheimer disease; Anxiety disorder; Bipolar disorder; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obesity; Obstructive pulmonary disease; Osteoarthritis; Parkinson disease; Schizophrenia
ASTN2	20	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Insomnia; Major depressive disorder; Metabolic syndrome; Migraine; Mood disorder; Neurotic disorder; Obesity; Obstructive pulmonary disease; Osteoarthritis; Schizophrenia; Scoliosis; Venous thromboembolism; Willis-ekbom disease
DCC	20	78	Alzheimer disease; Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Gastroesophageal reflux disease; Hypertension; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obesity; Oligodendroglioma; Post-traumatic stress disorder; Schizophrenia; Scoliosis; Substance abuse
ERBB4	20	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Bipolar disorder; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Gastroesophageal reflux disease; Gout; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Migraine; Mood disorder; Neurotic disorder; Obesity; Schizophrenia; Substance abuse
FTO	20	78	Atrial fibrillation; Bipolar disorder; Cardiovascular disease; Color vision deficiency; Congestive heart failure; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Mood disorder; Myocardial infarction; Obesity; Obstructive pulmonary disease; Osteoarthritis; Schizophrenia; Scoliosis; Stroke
PDE4B	20	78	Alzheimer disease; Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Cannabis abuse; Color vision deficiency; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Panic disorder; Post-traumatic stress disorder; Schizophrenia; Scoliosis; Substance abuse
PTPRD	20	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Cannabis abuse; Coronary artery disease; Dementia; Diabetes mellitus type 2; Endometriosis; Gout; Hypertension; Insomnia; Major depressive disorder; Migraine; Mood disorder; Obesity; Oligodendroglioma; Parkinson disease; Schizophrenia; Scoliosis; Willis-ekbom disease
CADM2	19	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Dementia; Diabetes mellitus type 2; Gout; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Migraine; Neurotic disorder; Obesity; Obstructive pulmonary disease; Schizophrenia; Substance abuse
CDH13	19	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Bipolar disorder; Cardiovascular disease; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Migraine; Myocardial infarction; Obesity; Oligodendroglioma; Schizophrenia; Scoliosis; Substance abuse
CSMD1	19	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Obstructive pulmonary disease; Post-traumatic stress disorder; Schizophrenia; Scoliosis; Venous thromboembolism

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
DRD2	19	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Color vision deficiency; Depression; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Migraine; Mood disorder; Neurotic disorder; Obesity; Obstructive pulmonary disease; Osteoarthritis; Parkinson disease; Schizophrenia; Substance abuse
LSAMP	19	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Cannabis abuse; Dementia; Depression; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obesity; Parkinson disease; Schizophrenia; Scoliosis; Substance abuse; Willis-ekbom disease
MAPT	19	78	Alzheimer disease; Anxiety disorder; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Major depressive disorder; Metabolic syndrome; Migraine; Mood disorder; Neurotic disorder; Osteoarthritis; Parkinson disease; Post-traumatic stress disorder; Schizophrenia; Substance abuse
NCAM1	19	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Cannabis abuse; Depression; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obesity; Post-traumatic stress disorder; Schizophrenia; Substance abuse
NRXN1	19	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gout; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obesity; Osteoarthritis; Schizophrenia; Scoliosis; Substance abuse
SOX5	19	78	Anxiety disorder; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Oligodendroglioma; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia; Stroke; Substance abuse
TCF4	19	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Hypertension; Insomnia; Irritable bowel syndrome; Major depressive disorder; Mood disorder; Neurotic disorder; Obesity; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia; Substance abuse
TCF7L2	19	78	Alzheimer disease; Atrial fibrillation; Autism; Bipolar disorder; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Migraine; Obesity; Obstructive pulmonary disease; Osteoarthritis; Schizophrenia; Stroke
ACE	18	78	Alzheimer disease; Atrial fibrillation; Autism; Bipolar disorder; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Dementia; Depression; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Schizophrenia; Stroke
DLG2	18	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Cardiovascular disease; Dementia; Depression; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Migraine; Obesity; Obstructive pulmonary disease; Osteoarthritis; Parkinson disease; Schizophrenia; Scoliosis; Substance abuse
MTHFR	18	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Cardiovascular disease; Coronary artery disease; Depression; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Migraine; Mood disorder; Myocardial infarction; Parkinson disease; Schizophrenia; Stroke
NYAP2	18	78	Alzheimer disease; Attention deficit hyperactivity disorder; Cardiovascular disease; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Neurotic disorder; Obesity; Oligodendroglioma; Schizophrenia; Scoliosis; Stroke; Substance abuse
TLR4	18	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Insomnia; Irritable bowel syndrome; Major depressive disorder; Mood disorder; Myocardial infarction; Neurotic disorder; Obesity; Osteoarthritis; Schizophrenia; Scoliosis; Substance abuse; Venous thromboembolism
ARHGAP15	17	78	Alzheimer disease; Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Myocardial infarction; Neurotic disorder; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia; Substance abuse
CACNA1C	17	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Color vision deficiency; Depression; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Metabolic syndrome; Mood disorder; Obesity; Oligodendroglioma; Schizophrenia; Scoliosis
CNTNAP2	17	78	Alzheimer disease; Autism; Bipolar disorder; Dementia; Depression; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Obesity; Oligodendroglioma; Parkinson disease; Schizophrenia; Scoliosis; Willis-ekbom disease
FADS2	17	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Major depressive disorder; Metabolic syndrome; Obstructive pulmonary disease; Schizophrenia; Stroke; Venous thromboembolism
IGSF11	17	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Bipolar disorder; Cannabis abuse; Dementia; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Parkinson disease; Schizophrenia; Scoliosis; Substance abuse; Willis-ekbom disease
MAML3	17	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Cannabis abuse; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Obstructive pulmonary disease; Schizophrenia; Scoliosis; Stroke; Substance abuse
NPAS3	17	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Dementia; Depression; Diabetes mellitus type 2; Heart failure; Insomnia; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Schizophrenia; Substance abuse
NRXN3	17	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Heart failure; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Oligodendroglioma; Schizophrenia; Substance abuse

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
NT5C2	17	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Metabolic syndrome; Migraine; Mood disorder; Myocardial infarction; Neurotic disorder; Obesity; Schizophrenia
NTM	17	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Color vision deficiency; Dementia; Depression; Diabetes mellitus type 2; Gastroesophageal reflux disease; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Obstructive pulmonary disease; Schizophrenia; Scoliosis; Substance abuse
RARB	17	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Endometriosis; Gout; Heart failure; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Obstructive pulmonary disease; Schizophrenia; Substance abuse
RERE	17	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cardiovascular disease; Diabetes mellitus type 2; Hypertension; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Migraine; Mood disorder; Neurotic disorder; Obesity; Obstructive pulmonary disease; Parkinson disease; Schizophrenia
SMG6	17	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Hypertension; Irritable bowel syndrome; Metabolic syndrome; Migraine; Myocardial infarction; Obesity; Obstructive pulmonary disease; Osteoarthritis; Schizophrenia; Substance abuse; Venous thromboembolism
TENM4	17	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Schizophrenia; Scoliosis; Substance abuse
TMEM106B	17	78	Alzheimer disease; Anxiety disorder; Bipolar disorder; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Myocardial infarction; Neurotic disorder; Post-traumatic stress disorder; Scoliosis; Stroke
VEGFA	17	78	Alzheimer disease; Atrial fibrillation; Bipolar disorder; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Myocardial infarction; Osteoarthritis; Schizophrenia
ZFPM2	17	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cardiovascular disease; Coronary artery disease; Dementia; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obstructive pulmonary disease; Schizophrenia; Venous thromboembolism
ABO	16	78	Atrial fibrillation; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Gout; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Migraine; Mood disorder; Myocardial infarction; Obesity; Scoliosis; Stroke; Venous thromboembolism
AKAP6	16	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Obstructive pulmonary disease; Schizophrenia; Scoliosis; Substance abuse
ANK3	16	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Dementia; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Mood disorder; Oligodendroglioma; Post-traumatic stress disorder; Schizophrenia; Scoliosis; Venous thromboembolism
ATP2A2	16	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Congestive heart failure; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Mood disorder; Myocardial infarction; Obstructive pulmonary disease; Schizophrenia
ATXN2	16	78	Attention deficit hyperactivity disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Parkinson disease; Schizophrenia; Scoliosis; Stroke; Substance abuse
BMAL1	16	78	Bipolar depression; Bipolar disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obesity; Obstructive pulmonary disease; Osteoarthritis; Schizophrenia
CACNA1D	16	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Bipolar depression; Bipolar disorder; Cardiovascular disease; Color vision deficiency; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Hypertension; Insomnia; Metabolic syndrome; Mood disorder; Obstructive pulmonary disease; Schizophrenia; Substance abuse
ESR1	16	78	Alzheimer disease; Anxiety disorder; Attention deficit hyperactivity disorder; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Major depressive disorder; Migraine; Mood disorder; Myocardial infarction; Obesity; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia; Substance abuse
NOS3	16	78	Alzheimer disease; Atrial fibrillation; Autism; Bipolar disorder; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Migraine; Myocardial infarction; Stroke
PHACTR1	16	78	Attention deficit hyperactivity disorder; Cardiovascular disease; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Migraine; Myocardial infarction; Schizophrenia; Stroke; Substance abuse; Willis-ekbom disease
PLCL1	16	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Schizophrenia; Scoliosis; Stroke
PTGS2	16	78	Autism; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Depression; Endometriosis; Gastroesophageal reflux disease; Heart failure; Hypertension; Major depressive disorder; Mood disorder; Myocardial infarction; Obesity; Osteoarthritis; Schizophrenia; Stroke

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
RELN	16	78	Alzheimer disease; Autism; Bipolar depression; Bipolar disorder; Color vision deficiency; Depression; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Osteoarthritis; Schizophrenia; Scoliosis; Venous thromboembolism; Willis-ekbom disease
RUNX1T1	16	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Color vision deficiency; Diabetes mellitus type 2; Gout; Hypertension; Insomnia; Metabolic syndrome; Obstructive pulmonary disease; Oligodendroglioma; Osteoarthritis; Schizophrenia; Scoliosis; Substance abuse
TRPS1	16	78	Alzheimer disease; Attention deficit hyperactivity disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Endometriosis; Gout; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Parkinson disease; Schizophrenia
ZFHX3	16	78	Anxiety disorder; Atrial fibrillation; Attention deficit hyperactivity disorder; Coronary artery disease; Dementia; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Obesity; Oligodendroglioma; Schizophrenia; Stroke; Substance abuse; Willis-ekbom disease
ALDH1A2	15	78	Alzheimer disease; Atrial fibrillation; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Metabolic syndrome; Obesity; Osteoarthritis; Parkinson disease; Schizophrenia; Scoliosis; Stroke
ALDH2	15	78	Alzheimer disease; Atrial fibrillation; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obstructive pulmonary disease; Parkinson disease; Stroke
AUTS2	15	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Gout; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Schizophrenia; Substance abuse
BANK1	15	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Cardiovascular disease; Diabetes mellitus type 2; Gout; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Osteoarthritis; Schizophrenia
BNC2	15	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Coronary artery disease; Diabetes mellitus type 2; Gout; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obstructive pulmonary disease; Osteoarthritis; Scoliosis; Substance abuse
BRINP1	15	78	Anxiety disorder; Attention deficit hyperactivity disorder; Bipolar disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Mood disorder; Neurotic disorder; Oligodendroglioma; Parkinson disease; Schizophrenia; Scoliosis; Substance abuse
C6ORF118	15	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Endometriosis; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Schizophrenia; Scoliosis
CAMK1D	15	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Endometriosis; Hypertension; Insomnia; Major depressive disorder; Migraine; Obesity; Oligodendroglioma; Parkinson disease; Schizophrenia
CDKAL1	15	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Metabolic syndrome; Obesity; Osteoarthritis; Scoliosis; Stroke
CELF4	15	78	Alzheimer disease; Anxiety disorder; Attention deficit hyperactivity disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Irritable bowel syndrome; Major depressive disorder; Migraine; Mood disorder; Neurotic disorder; Obesity; Obstructive pulmonary disease; Schizophrenia
COMT	15	78	Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Cannabis abuse; Depression; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Mood disorder; Obesity; Panic disorder; Schizophrenia; Scoliosis
FHIT	15	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Osteoarthritis; Schizophrenia; Scoliosis; Stroke
GRIK2	15	78	Alzheimer disease; Autism; Bipolar depression; Bipolar disorder; Color vision deficiency; Dementia; Endometriosis; Hypertension; Insomnia; Irritable bowel syndrome; Major depressive disorder; Mood disorder; Obesity; Schizophrenia; Scoliosis
GRM8	15	78	Alzheimer disease; Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Gastroesophageal reflux disease; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obesity; Post-traumatic stress disorder; Schizophrenia; Substance abuse
HDAC9	15	78	Alzheimer disease; Cardiovascular disease; Coronary artery disease; Depression; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Myocardial infarction; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Osteoarthritis; Schizophrenia; Scoliosis; Stroke
HTR1A	15	78	Alzheimer disease; Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Depression; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Panic disorder; Schizophrenia; Scoliosis
HTR2A	15	78	Autism; Bipolar depression; Bipolar disorder; Color vision deficiency; Depression; Hypertension; Major depressive disorder; Metabolic syndrome; Migraine; Mood disorder; Obesity; Obstructive pulmonary disease; Parkinson disease; Schizophrenia; Scoliosis

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
IL1B	15	78	Alzheimer disease; Bipolar disorder; Congestive heart failure; Depression; Diabetes mellitus type 2; Endometriosis; Gout; Heart failure; Hypertension; Major depressive disorder; Myocardial infarction; Osteoarthritis; Parkinson disease; Schizophrenia; Stroke
IL6	15	78	Autism; Bipolar disorder; Congestive heart failure; Depression; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obesity; Osteoarthritis; Parkinson disease; Schizophrenia; Stroke
LINGO2	15	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Hypertension; Metabolic syndrome; Migraine; Neurotic disorder; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Schizophrenia; Substance abuse; Willis-ekbom disease
MACROD2	15	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Endometriosis; Hypertension; Major depressive disorder; Metabolic syndrome; Mood disorder; Obesity; Schizophrenia; Substance abuse
NALF1	15	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Dementia; Diabetes mellitus type 2; Gout; Irritable bowel syndrome; Major depressive disorder; Obesity; Schizophrenia; Scoliosis; Stroke; Venous thromboembolism
NEGR1	15	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Endometriosis; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Obesity; Schizophrenia; Willis-ekbom disease
NKAIN2	15	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Oligodendroglioma; Parkinson disease; Schizophrenia; Substance abuse
NR3C1	15	78	Atrial fibrillation; Bipolar depression; Bipolar disorder; Coronary artery disease; Depression; Diabetes mellitus type 2; Endometriosis; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Migraine; Mood disorder; Obesity; Schizophrenia
NTRK2	15	78	Alzheimer disease; Anxiety disorder; Autism; Bipolar depression; Bipolar disorder; Depression; Diabetes mellitus type 2; Gout; Major depressive disorder; Metabolic syndrome; Mood disorder; Obesity; Parkinson disease; Schizophrenia; Scoliosis
PLCL2	15	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Cannabis abuse; Dementia; Diabetes mellitus type 2; Major depressive disorder; Mood disorder; Myocardial infarction; Neurotic disorder; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia; Scoliosis; Substance abuse
PRKD1	15	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Coronary artery disease; Dementia; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Schizophrenia
SDK1	15	78	Alzheimer disease; Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Color vision deficiency; Dementia; Gastroesophageal reflux disease; Insomnia; Major depressive disorder; Neurotic disorder; Obesity; Oligodendroglioma; Post-traumatic stress disorder; Schizophrenia; Substance abuse
SGCZ	15	78	Attention deficit hyperactivity disorder; Autism; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Osteoarthritis; Schizophrenia; Scoliosis; Willis-ekbom disease
VRK2	15	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obesity; Post-traumatic stress disorder; Schizophrenia; Scoliosis; Stroke; Substance abuse
WVOX	15	78	Alzheimer disease; Autism; Bipolar disorder; Color vision deficiency; Insomnia; Major depressive disorder; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Osteoarthritis; Parkinson disease; Schizophrenia; Scoliosis; Stroke; Venous thromboembolism
ADGRL2	14	78	Alzheimer disease; Attention deficit hyperactivity disorder; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Metabolic syndrome; Myocardial infarction; Obesity; Schizophrenia; Scoliosis; Substance abuse; Venous thromboembolism
AFF3	14	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Endometriosis; Gastroesophageal reflux disease; Insomnia; Metabolic syndrome; Obstructive pulmonary disease; Post-traumatic stress disorder; Schizophrenia; Scoliosis; Substance abuse
APOC1	14	78	Alzheimer disease; Atrial fibrillation; Congestive heart failure; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Insomnia; Metabolic syndrome; Myocardial infarction; Obesity; Osteoarthritis; Stroke
CARMIL1	14	78	Autism; Bipolar disorder; Color vision deficiency; Coronary artery disease; Gastroesophageal reflux disease; Gout; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Oligodendroglioma; Schizophrenia; Venous thromboembolism
CCL2	14	78	Bipolar depression; Bipolar disorder; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Depression; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obesity; Schizophrenia
CNTN5	14	78	Anxiety disorder; Atrial fibrillation; Bipolar disorder; Color vision deficiency; Dementia; Gout; Insomnia; Major depressive disorder; Neurotic disorder; Obesity; Obstructive pulmonary disease; Schizophrenia; Scoliosis; Venous thromboembolism

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
FOXP1	14	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Cannabis abuse; Color vision deficiency; Diabetes mellitus type 2; Endometriosis; Gastroesophageal reflux disease; Heart failure; Insomnia; Migraine; Post-traumatic stress disorder; Schizophrenia; Substance abuse
FURIN	14	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Coronary artery disease; Hypertension; Insomnia; Major depressive disorder; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia; Stroke; Substance abuse
GLIS3	14	78	Alzheimer disease; Color vision deficiency; Dementia; Diabetes mellitus type 2; Gout; Heart failure; Insomnia; Irritable bowel syndrome; Major depressive disorder; Neurotic disorder; Obstructive pulmonary disease; Oligodendroglioma; Osteoarthritis; Schizophrenia
GRIK3	14	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Dementia; Endometriosis; Hypertension; Insomnia; Major depressive disorder; Neurotic disorder; Obesity; Schizophrenia; Scoliosis; Willis-ekbom disease
H2BC4	14	78	Alzheimer disease; Autism; Bipolar disorder; Cardiovascular disease; Diabetes mellitus type 2; Gout; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Osteoarthritis; Schizophrenia
IMMP2L	14	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Migraine; Obesity; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia; Substance abuse
LRFN5	14	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Migraine; Neurotic disorder; Obesity; Post-traumatic stress disorder; Schizophrenia
LRP1B	14	78	Alzheimer disease; Bipolar disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Endometriosis; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Migraine; Parkinson disease; Schizophrenia; Scoliosis
MC4R	14	78	Atrial fibrillation; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Neurotic disorder; Obesity; Oligodendroglioma; Osteoarthritis; Schizophrenia
NLGN1	14	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Migraine; Osteoarthritis; Schizophrenia; Scoliosis; Substance abuse; Willis-ekbom disease
NRG1	14	78	Bipolar depression; Bipolar disorder; Cannabis abuse; Congestive heart failure; Diabetes mellitus type 2; Gout; Heart failure; Insomnia; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obesity; Schizophrenia; Scoliosis
PRKG1	14	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Color vision deficiency; Coronary artery disease; Dementia; Diabetes mellitus type 2; Metabolic syndrome; Migraine; Obesity; Oligodendroglioma; Schizophrenia; Stroke; Substance abuse
PTPRF	14	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Congestive heart failure; Gout; Heart failure; Hypertension; Irritable bowel syndrome; Major depressive disorder; Schizophrenia; Stroke; Substance abuse
SLC6A4	14	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Cannabis abuse; Congestive heart failure; Depression; Heart failure; Insomnia; Major depressive disorder; Mood disorder; Schizophrenia; Substance abuse
TENM2	14	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Cardiovascular disease; Dementia; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Schizophrenia; Scoliosis; Substance abuse
TGFB1	14	78	Bipolar disorder; Cardiovascular disease; Coronary artery disease; Depression; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Migraine; Mood disorder; Myocardial infarction; Osteoarthritis; Schizophrenia; Stroke
THSD7A	14	78	Alzheimer disease; Anxiety disorder; Bipolar depression; Bipolar disorder; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Scoliosis
ZBTB20	14	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gout; Major depressive disorder; Metabolic syndrome; Post-traumatic stress disorder; Schizophrenia; Substance abuse
ZNF536	14	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obesity; Schizophrenia; Scoliosis; Stroke
ZNF804A	14	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Insomnia; Major depressive disorder; Mood disorder; Myocardial infarction; Neurotic disorder; Obesity; Post-traumatic stress disorder; Schizophrenia; Scoliosis
ABHD17C	13	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Cardiovascular disease; Diabetes mellitus type 2; Endometriosis; Heart failure; Hypertension; Insomnia; Metabolic syndrome; Migraine; Schizophrenia; Stroke; Substance abuse

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
ALCAM	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Oligodendroglioma; Parkinson disease; Schizophrenia; Scoliosis; Substance abuse; Willis-ekbom disease
ASB3	13	78	Alzheimer disease; Color vision deficiency; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Osteoarthritis; Scoliosis; Stroke; Willis-ekbom disease
CNNM2	13	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Gout; Hypertension; Insomnia; Major depressive disorder; Migraine; Myocardial infarction; Schizophrenia; Substance abuse
CRP	13	78	Anxiety disorder; Attention deficit hyperactivity disorder; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Depression; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Obesity; Schizophrenia; Substance abuse
CTNNA3	13	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Hypertension; Insomnia; Major depressive disorder; Migraine; Neurotic disorder; Obesity; Schizophrenia; Scoliosis; Substance abuse; Willis-ekbom disease
CTTNBP2	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Myocardial infarction; Neurotic disorder; Obesity; Post-traumatic stress disorder; Substance abuse
DENND1B	13	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Insomnia; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Neurotic disorder; Substance abuse
DGKB	13	78	Alzheimer disease; Atrial fibrillation; Bipolar disorder; Dementia; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obstructive pulmonary disease; Oligodendroglioma; Scoliosis; Venous thromboembolism
DUSP6	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Heart failure; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Myocardial infarction; Schizophrenia; Substance abuse
ERCC4	13	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Oligodendroglioma; Schizophrenia; Scoliosis; Substance abuse
ESR2	13	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Depression; Diabetes mellitus type 2; Endometriosis; Hypertension; Major depressive disorder; Parkinson disease; Schizophrenia
FBXL17	13	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Post-traumatic stress disorder; Schizophrenia; Substance abuse
GRID1	13	78	Bipolar disorder; Cardiovascular disease; Color vision deficiency; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Oligodendroglioma; Post-traumatic stress disorder; Schizophrenia; Scoliosis
GRM5	13	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Depression; Diabetes mellitus type 2; Endometriosis; Hypertension; Insomnia; Major depressive disorder; Neurotic disorder; Obesity; Schizophrenia; Scoliosis
GRM7	13	78	Attention deficit hyperactivity disorder; Bipolar disorder; Depression; Endometriosis; Insomnia; Irritable bowel syndrome; Major depressive disorder; Migraine; Obstructive pulmonary disease; Oligodendroglioma; Panic disorder; Schizophrenia; Scoliosis
HFE	13	78	Alzheimer disease; Autism; Cardiovascular disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Neurotic disorder; Obesity; Osteoarthritis; Parkinson disease; Schizophrenia
HTR4	13	78	Atrial fibrillation; Bipolar disorder; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Obstructive pulmonary disease; Schizophrenia; Stroke
IGSF9B	13	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Insomnia; Major depressive disorder; Migraine; Neurotic disorder; Obesity; Parkinson disease; Schizophrenia; Substance abuse
INS	13	78	Alzheimer disease; Bipolar depression; Bipolar disorder; Congestive heart failure; Depression; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Metabolic syndrome; Obesity; Panic disorder; Parkinson disease
KCNJ6	13	78	Attention deficit hyperactivity disorder; Autism; Color vision deficiency; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gout; Major depressive disorder; Metabolic syndrome; Parkinson disease; Schizophrenia; Stroke; Substance abuse
LCORL	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Hypertension; Insomnia; Metabolic syndrome; Oligodendroglioma; Parkinson disease; Schizophrenia

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
LPL	13	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Metabolic syndrome; Myocardial infarction; Obesity; Schizophrenia; Stroke
MAP2K5	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Diabetes mellitus type 2; Endometriosis; Heart failure; Insomnia; Major depressive disorder; Metabolic syndrome; Migraine; Obesity; Substance abuse; Willis-ekbom disease
METTL15	13	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Diabetes mellitus type 2; Major depressive disorder; Neurotic disorder; Obesity; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia; Substance abuse
NAALAD L2	13	78	Alzheimer disease; Autism; Bipolar disorder; Color vision deficiency; Dementia; Endometriosis; Gout; Insomnia; Major depressive disorder; Obesity; Oligodendroglioma; Schizophrenia; Scoliosis
NCOA5	13	78	Anxiety disorder; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obesity; Post-traumatic stress disorder; Schizophrenia
NPY	13	78	Alzheimer disease; Anxiety disorder; Autism; Cardiovascular disease; Depression; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Mood disorder; Schizophrenia; Scoliosis; Substance abuse
PCDH15	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Color vision deficiency; Dementia; Diabetes mellitus type 2; Insomnia; Irritable bowel syndrome; Major depressive disorder; Oligodendroglioma; Schizophrenia; Scoliosis; Substance abuse
PDE1C	13	78	Attention deficit hyperactivity disorder; Autism; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Gastroesophageal reflux disease; Gout; Insomnia; Metabolic syndrome; Neurotic disorder; Schizophrenia; Scoliosis; Substance abuse
POMC	13	78	Autism; Bipolar depression; Bipolar disorder; Color vision deficiency; Congestive heart failure; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Obesity; Substance abuse; Willis-ekbom disease
PON1	13	78	Alzheimer disease; Autism; Bipolar disorder; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Schizophrenia
PRKN	13	78	Alzheimer disease; Autism; Color vision deficiency; Dementia; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Parkinson disease; Post-traumatic stress disorder; Schizophrenia; Scoliosis; Stroke
PTPRN2	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Major depressive disorder; Metabolic syndrome; Obesity; Osteoarthritis; Schizophrenia; Scoliosis; Substance abuse
RIMS1	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Dementia; Insomnia; Major depressive disorder; Migraine; Oligodendroglioma; Parkinson disease; Schizophrenia; Scoliosis
ROBO2	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Color vision deficiency; Diabetes mellitus type 2; Endometriosis; Insomnia; Major depressive disorder; Metabolic syndrome; Migraine; Schizophrenia; Substance abuse; Willis-ekbom disease
RPTOR	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Metabolic syndrome; Obesity; Oligodendroglioma; Schizophrenia
SEMA6D	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Cannabis abuse; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Schizophrenia; Scoliosis; Substance abuse; Willis-ekbom disease
SLC6A15	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Depression; Diabetes mellitus type 2; Gastroesophageal reflux disease; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Schizophrenia; Venous thromboembolism; Willis-ekbom disease
SOX6	13	78	Atrial fibrillation; Bipolar disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obesity; Post-traumatic stress disorder; Scoliosis
TET2	13	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Insomnia; Obstructive pulmonary disease; Osteoarthritis; Schizophrenia; Scoliosis; Substance abuse
TMEM18	13	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Cannabis abuse; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Metabolic syndrome; Obesity; Osteoarthritis; Schizophrenia; Substance abuse
WNT3	13	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Coronary artery disease; Major depressive disorder; Mood disorder; Neurotic disorder; Osteoarthritis; Parkinson disease; Post-traumatic stress disorder; Schizophrenia; Substance abuse

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
ABHD5	12	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Cannabis abuse; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Insomnia; Metabolic syndrome; Osteoarthritis; Schizophrenia; Substance abuse
AGAP1	12	78	Alzheimer disease; Autism; Cardiovascular disease; Dementia; Diabetes mellitus type 2; Insomnia; Metabolic syndrome; Obesity; Osteoarthritis; Parkinson disease; Schizophrenia; Stroke
ARPP21	12	78	Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obstructive pulmonary disease; Osteoarthritis; Substance abuse
AS3MT	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Myocardial infarction; Neurotic disorder; Obesity; Schizophrenia
BCAS3	12	78	Alzheimer disease; Atrial fibrillation; Cardiovascular disease; Coronary artery disease; Gout; Hypertension; Insomnia; Myocardial infarction; Obesity; Obstructive pulmonary disease; Osteoarthritis; Scoliosis
CA10	12	78	Attention deficit hyperactivity disorder; Autism; Color vision deficiency; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Myocardial infarction; Obstructive pulmonary disease; Scoliosis; Substance abuse; Willis-ekbom disease
CACNB2	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cardiovascular disease; Color vision deficiency; Coronary artery disease; Heart failure; Hypertension; Major depressive disorder; Obesity; Schizophrenia
CAMTA1	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Major depressive disorder; Metabolic syndrome; Migraine; Mood disorder; Neurotic disorder; Substance abuse; Willis-ekbom disease
CCDC68	12	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Mood disorder; Neurotic disorder; Obesity; Schizophrenia; Scoliosis
CCDC91	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Dementia; Gastroesophageal reflux disease; Hypertension; Obesity; Obstructive pulmonary disease; Osteoarthritis; Parkinson disease; Scoliosis; Stroke
CNR1	12	78	Anxiety disorder; Attention deficit hyperactivity disorder; Bipolar disorder; Cannabis abuse; Depression; Diabetes mellitus type 2; Endometriosis; Major depressive disorder; Obesity; Post-traumatic stress disorder; Schizophrenia; Substance abuse
CUX2	12	78	Alzheimer disease; Atrial fibrillation; Bipolar disorder; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Hypertension; Major depressive disorder; Myocardial infarction; Venous thromboembolism
DAB1	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Insomnia; Metabolic syndrome; Oligodendroglioma; Scoliosis; Substance abuse; Willis-ekbom disease
EFNA5	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Post-traumatic stress disorder; Schizophrenia; Substance abuse
EPHX2	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Color vision deficiency; Congestive heart failure; Coronary artery disease; Heart failure; Hypertension; Major depressive disorder; Schizophrenia
ERBB3	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Depression; Diabetes mellitus type 2; Gastroesophageal reflux disease; Major depressive disorder; Migraine; Obesity; Obstructive pulmonary disease; Schizophrenia; Substance abuse
ERC2	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Cannabis abuse; Dementia; Gastroesophageal reflux disease; Major depressive disorder; Obstructive pulmonary disease; Osteoarthritis; Schizophrenia; Scoliosis; Substance abuse
FSTL5	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Dementia; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Osteoarthritis; Parkinson disease; Schizophrenia
GAD1	12	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Depression; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Mood disorder; Schizophrenia; Scoliosis
GRIA1	12	78	Alzheimer disease; Autism; Bipolar disorder; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Post-traumatic stress disorder; Schizophrenia; Substance abuse; Willis-ekbom disease
HLA-B	12	78	Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obstructive pulmonary disease; Post-traumatic stress disorder; Schizophrenia
HLA-DQB1	12	78	Autism; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Obstructive pulmonary disease; Parkinson disease; Schizophrenia

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
HLA-DRB1	12	78	Alzheimer disease; Autism; Bipolar disorder; Diabetes mellitus type 2; Endometriosis; Gout; Insomnia; Major depressive disorder; Metabolic syndrome; Parkinson disease; Schizophrenia; Willis-ekbom disease
HMGCR	12	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Metabolic syndrome; Myocardial infarction; Parkinson disease; Schizophrenia; Stroke
KAZN	12	78	Alzheimer disease; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Major depressive disorder; Mood disorder; Obstructive pulmonary disease; Oligodendroglioma; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia; Scoliosis
KDM4B	12	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Coronary artery disease; Diabetes mellitus type 2; Gout; Hypertension; Insomnia; Major depressive disorder; Schizophrenia; Substance abuse; Willis-ekbom disease
KIAA1217	12	78	Atrial fibrillation; Color vision deficiency; Coronary artery disease; Dementia; Hypertension; Major depressive disorder; Myocardial infarction; Obesity; Osteoarthritis; Schizophrenia; Scoliosis; Stroke
KSR2	12	78	Alzheimer disease; Autism; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Hypertension; Insomnia; Major depressive disorder; Migraine; Neurotic disorder; Obesity; Willis-ekbom disease
LINC02210-CRHR1	12	78	Alzheimer disease; Autism; Dementia; Gastroesophageal reflux disease; Major depressive disorder; Migraine; Mood disorder; Neurotic disorder; Osteoarthritis; Parkinson disease; Post-traumatic stress disorder; Schizophrenia
MAGI2	12	78	Anxiety disorder; Attention deficit hyperactivity disorder; Bipolar disorder; Cannabis abuse; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Oligodendroglioma; Schizophrenia; Substance abuse
MDGA2	12	78	Attention deficit hyperactivity disorder; Color vision deficiency; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Parkinson disease; Post-traumatic stress disorder; Schizophrenia; Substance abuse
MPHOSH9	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Insomnia; Irritable bowel syndrome; Major depressive disorder; Obstructive pulmonary disease; Osteoarthritis; Schizophrenia; Venous thromboembolism
NR3C2	12	78	Alzheimer disease; Atrial fibrillation; Autism; Congestive heart failure; Depression; Endometriosis; Heart failure; Hypertension; Insomnia; Major depressive disorder; Myocardial infarction; Schizophrenia
NUP160	12	78	Alzheimer disease; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Mood disorder; Myocardial infarction; Neurotic disorder; Obesity; Osteoarthritis; Venous thromboembolism
OLFM1	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Oligodendroglioma; Post-traumatic stress disorder; Substance abuse
OPCML	12	78	Attention deficit hyperactivity disorder; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Migraine; Oligodendroglioma; Schizophrenia; Scoliosis; Stroke; Venous thromboembolism
PCDH9	12	78	Autism; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Osteoarthritis; Schizophrenia; Scoliosis
PCLO	12	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Depression; Insomnia; Irritable bowel syndrome; Major depressive disorder; Neurotic disorder; Obesity; Post-traumatic stress disorder; Schizophrenia
PLG	12	78	Cardiovascular disease; Coronary artery disease; Dementia; Depression; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Oligodendroglioma; Schizophrenia; Stroke
PPARG	12	78	Alzheimer disease; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Metabolic syndrome; Mood disorder; Obesity; Osteoarthritis
PTPRG	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Dementia; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Osteoarthritis; Schizophrenia; Stroke
RBMS3	12	78	Alzheimer disease; Bipolar disorder; Diabetes mellitus type 2; Hypertension; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obstructive pulmonary disease; Parkinson disease; Schizophrenia; Scoliosis
SERPINE1	12	78	Alzheimer disease; Autism; Congestive heart failure; Coronary artery disease; Depression; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Myocardial infarction; Obesity; Venous thromboembolism
SH2B3	12	78	Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Schizophrenia; Scoliosis; Stroke; Venous thromboembolism

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
SLC14A2	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Metabolic syndrome; Obstructive pulmonary disease; Post-traumatic stress disorder; Scoliosis; Substance abuse
SLC28A3	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Cannabis abuse; Color vision deficiency; Diabetes mellitus type 2; Gout; Metabolic syndrome; Migraine; Obesity; Parkinson disease; Schizophrenia; Substance abuse
SNX29	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Color vision deficiency; Dementia; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Schizophrenia; Scoliosis
SOD2	12	78	Alzheimer disease; Bipolar disorder; Congestive heart failure; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Myocardial infarction; Obesity; Osteoarthritis; Parkinson disease; Schizophrenia
STAG1	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Neurotic disorder; Osteoarthritis; Schizophrenia
TAF4A5	12	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Cannabis abuse; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Metabolic syndrome; Schizophrenia; Scoliosis; Substance abuse; Venous thromboembolism
TFAP2B	12	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Major depressive disorder; Metabolic syndrome; Obesity; Schizophrenia; Substance abuse
TPH2	12	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Color vision deficiency; Depression; Hypertension; Major depressive disorder; Mood disorder; Panic disorder; Schizophrenia
TRAIP	12	78	Alzheimer disease; Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Heart failure; Insomnia; Major depressive disorder; Substance abuse
TSNARE1	12	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Gastroesophageal reflux disease; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Post-traumatic stress disorder; Schizophrenia
UNC5C	12	78	Alzheimer disease; Cardiovascular disease; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obesity; Osteoarthritis; Schizophrenia
XKR6	12	78	Attention deficit hyperactivity disorder; Diabetes mellitus type 2; Endometriosis; Hypertension; Major depressive disorder; Neurotic disorder; Oligodendroglioma; Osteoarthritis; Schizophrenia; Scoliosis; Substance abuse; Willis-ekbom disease
ZNF385D	12	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Bipolar disorder; Dementia; Depression; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Schizophrenia
AGBL1	11	78	Alzheimer disease; Color vision deficiency; Diabetes mellitus type 2; Insomnia; Metabolic syndrome; Migraine; Neurotic disorder; Oligodendroglioma; Schizophrenia; Stroke; Venous thromboembolism
AGBL4	11	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Diabetes mellitus type 2; Endometriosis; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Schizophrenia
AGT	11	78	Alzheimer disease; Atrial fibrillation; Bipolar disorder; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Heart failure; Hypertension; Major depressive disorder; Myocardial infarction; Obesity
ANAPC4	11	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Gout; Heart failure; Metabolic syndrome; Obesity; Osteoarthritis; Post-traumatic stress disorder; Scoliosis
APOB	11	78	Alzheimer disease; Atrial fibrillation; Bipolar disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Metabolic syndrome; Myocardial infarction; Stroke
ASXL3	11	78	Autism; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Heart failure; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Parkinson disease; Willis-ekbom disease
BCL2	11	78	Alzheimer disease; Autism; Bipolar disorder; Diabetes mellitus type 2; Endometriosis; Hypertension; Major depressive disorder; Migraine; Myocardial infarction; Schizophrenia; Scoliosis
BSN	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Endometriosis; Insomnia; Major depressive disorder; Myocardial infarction; Obstructive pulmonary disease; Osteoarthritis
C1GALT1	11	78	Alzheimer disease; Cardiovascular disease; Coronary artery disease; Dementia; Diabetes mellitus type 2; Hypertension; Insomnia; Metabolic syndrome; Migraine; Myocardial infarction; Obstructive pulmonary disease
CACNA2D3	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Gout; Major depressive disorder; Obstructive pulmonary disease; Parkinson disease; Schizophrenia; Substance abuse

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
CADM1	11	78	Autism; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Obesity; Obstructive pulmonary disease; Osteoarthritis; Parkinson disease; Schizophrenia; Scoliosis; Willis-ekbom disease
CADPS2	11	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Metabolic syndrome; Osteoarthritis; Schizophrenia; Substance abuse
CASZ1	11	78	Atrial fibrillation; Cardiovascular disease; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Migraine; Obstructive pulmonary disease; Stroke
CHRM3	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Dementia; Gastroesophageal reflux disease; Hypertension; Major depressive disorder; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Schizophrenia
COL22A1	11	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Dementia; Hypertension; Major depressive disorder; Obesity; Schizophrenia; Scoliosis
DCHS2	11	78	Alzheimer disease; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Schizophrenia; Venous thromboembolism
DGKI	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Osteoarthritis; Schizophrenia
DISC1	11	78	Alzheimer disease; Anxiety disorder; Autism; Bipolar depression; Bipolar disorder; Color vision deficiency; Depression; Major depressive disorder; Mood disorder; Schizophrenia; Scoliosis
DPYD	11	78	Autism; Cannabis abuse; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Metabolic syndrome; Obesity; Obstructive pulmonary disease; Oligodendroglioma; Schizophrenia
EBF2	11	78	Atrial fibrillation; Cardiovascular disease; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Osteoarthritis; Venous thromboembolism; Willis-ekbom disease
EDN1	11	78	Atrial fibrillation; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Obesity; Parkinson disease; Stroke
FADS1	11	78	Alzheimer disease; Atrial fibrillation; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Major depressive disorder; Metabolic syndrome; Obstructive pulmonary disease; Stroke; Venous thromboembolism
FARP1	11	78	Alzheimer disease; Anxiety disorder; Color vision deficiency; Coronary artery disease; Gastroesophageal reflux disease; Major depressive disorder; Migraine; Neurotic disorder; Obesity; Schizophrenia; Substance abuse
FBXO11	11	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Bipolar disorder; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Obesity; Oligodendroglioma; Schizophrenia; Substance abuse
GCKR	11	78	Atrial fibrillation; Bipolar disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Metabolic syndrome; Schizophrenia; Stroke; Venous thromboembolism
GIGYF2	11	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Major depressive disorder; Myocardial infarction; Obesity; Parkinson disease; Schizophrenia
GNA12	11	78	Atrial fibrillation; Bipolar disorder; Dementia; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Neurotic disorder; Obstructive pulmonary disease; Parkinson disease; Schizophrenia
GRM3	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Gastroesophageal reflux disease; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Schizophrenia
GSK3B	11	78	Alzheimer disease; Bipolar depression; Bipolar disorder; Color vision deficiency; Congestive heart failure; Heart failure; Hypertension; Major depressive disorder; Mood disorder; Myocardial infarction; Schizophrenia
HCN1	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Major depressive disorder; Mood disorder; Neurotic disorder; Schizophrenia; Substance abuse
HIVEP2	11	78	Bipolar disorder; Cardiovascular disease; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Gastroesophageal reflux disease; Major depressive disorder; Metabolic syndrome; Obstructive pulmonary disease; Scoliosis
HLA-DQA1	11	78	Alzheimer disease; Autism; Diabetes mellitus type 2; Gout; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Obstructive pulmonary disease; Parkinson disease; Schizophrenia
HNF4G	11	78	Alzheimer disease; Cardiovascular disease; Diabetes mellitus type 2; Gout; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Oligodendroglioma; Scoliosis
HS6ST3	11	78	Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Gout; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Oligodendroglioma; Schizophrenia; Substance abuse
IGF1R	11	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Diabetes mellitus type 2; Endometriosis; Gout; Insomnia; Metabolic syndrome; Migraine; Parkinson disease; Substance abuse

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
IL6R	11	78	Alzheimer disease; Atrial fibrillation; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gout; Major depressive disorder; Myocardial infarction; Obesity; Schizophrenia; Venous thromboembolism
IRAK1BP1	11	78	Alzheimer disease; Atrial fibrillation; Cardiovascular disease; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Metabolic syndrome; Schizophrenia; Scoliosis
JMJD1C	11	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Coronary artery disease; Diabetes mellitus type 2; Gout; Insomnia; Metabolic syndrome; Migraine; Venous thromboembolism
KANSL1	11	78	Alzheimer disease; Autism; Diabetes mellitus type 2; Major depressive disorder; Mood disorder; Neurotic disorder; Obstructive pulmonary disease; Osteoarthritis; Parkinson disease; Post-traumatic stress disorder; Schizophrenia
KCNG2	11	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Endometriosis; Insomnia; Major depressive disorder; Neurotic disorder; Obesity; Oligodendroglioma; Schizophrenia; Substance abuse
KCNK9	11	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Dementia; Major depressive disorder; Mood disorder; Obesity; Schizophrenia; Scoliosis
LINGO1	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Post-traumatic stress disorder; Schizophrenia; Substance abuse
LRFN2	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Insomnia; Metabolic syndrome; Obesity; Oligodendroglioma; Schizophrenia; Substance abuse
LRMDA	11	78	Atrial fibrillation; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Obstructive pulmonary disease; Oligodendroglioma; Osteoarthritis; Post-traumatic stress disorder; Scoliosis; Willkisson disease
MAOA	11	78	Alzheimer disease; Autism; Bipolar depression; Bipolar disorder; Depression; Endometriosis; Major depressive disorder; Mood disorder; Panic disorder; Parkinson disease; Schizophrenia
MARK3	11	78	Cardiovascular disease; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Gout; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Osteoarthritis
MFHAS1	11	78	Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Endometriosis; Gout; Irritable bowel syndrome; Major depressive disorder; Neurotic disorder; Obesity; Obstructive pulmonary disease; Osteoarthritis
MLXIPL	11	78	Alzheimer disease; Atrial fibrillation; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Metabolic syndrome; Migraine; Myocardial infarction; Obesity; Stroke
MSRA	11	78	Alzheimer disease; Autism; Bipolar disorder; Dementia; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Neurotic disorder; Schizophrenia; Venous thromboembolism
NAV1	11	78	Attention deficit hyperactivity disorder; Autism; Cardiovascular disease; Color vision deficiency; Diabetes mellitus type 2; Gout; Insomnia; Metabolic syndrome; Obesity; Obstructive pulmonary disease; Schizophrenia
NECTIN2	11	78	Alzheimer disease; Atrial fibrillation; Cardiovascular disease; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Metabolic syndrome; Myocardial infarction; Parkinson disease
NTRK3	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Dementia; Depression; Endometriosis; Major depressive disorder; Mood disorder; Schizophrenia; Substance abuse
PAX5	11	78	Anxiety disorder; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Schizophrenia; Stroke
PCCB	11	78	Atrial fibrillation; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Neurotic disorder; Osteoarthritis; Venous thromboembolism
PGPEP1	11	78	Alzheimer disease; Atrial fibrillation; Bipolar disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Hypertension; Major depressive disorder; Metabolic syndrome; Schizophrenia
PHF2	11	78	Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Post-traumatic stress disorder; Schizophrenia
PMFBP1	11	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Dementia; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Schizophrenia; Venous thromboembolism
POC1B	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Heart failure; Insomnia; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Schizophrenia; Substance abuse
PREX1	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Cardiovascular disease; Coronary artery disease; Hypertension; Major depressive disorder; Myocardial infarction; Post-traumatic stress disorder; Schizophrenia; Scoliosis
PTPRJ	11	78	Atrial fibrillation; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Mood disorder; Myocardial infarction; Neurotic disorder; Osteoarthritis; Venous thromboembolism

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
RABGAP1L	11	78	Diabetes mellitus type 2; Endometriosis; Gastroesophageal reflux disease; Major depressive disorder; Metabolic syndrome; Migraine; Mood disorder; Neurotic disorder; Obstructive pulmonary disease; Osteoarthritis; Schizophrenia
RFLNA	11	78	Atrial fibrillation; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Insomnia; Major depressive disorder; Metabolic syndrome; Oligodendroglioma; Osteoarthritis; Schizophrenia; Willis-ekbom disease
RGS6	11	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Mood disorder; Neurotic disorder; Obesity; Schizophrenia
RORA	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cardiovascular disease; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Parkinson disease; Schizophrenia
RSRC1	11	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Gout; Hypertension; Major depressive disorder; Neurotic disorder; Obesity; Obstructive pulmonary disease; Schizophrenia; Substance abuse
SBF2	11	78	Alzheimer disease; Congestive heart failure; Dementia; Diabetes mellitus type 2; Endometriosis; Gout; Heart failure; Hypertension; Migraine; Neurotic disorder; Scoliosis
SERPINA1	11	78	Anxiety disorder; Autism; Bipolar depression; Bipolar disorder; Coronary artery disease; Major depressive disorder; Migraine; Mood disorder; Myocardial infarction; Obstructive pulmonary disease; Osteoarthritis
SIM1	11	78	Atrial fibrillation; Bipolar disorder; Diabetes mellitus type 2; Heart failure; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Schizophrenia
SPAG16	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Obesity; Osteoarthritis; Schizophrenia; Scoliosis
TDRD15	11	78	Atrial fibrillation; Bipolar disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Insomnia; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Stroke
TFAP2D	11	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cardiovascular disease; Diabetes mellitus type 2; Endometriosis; Hypertension; Major depressive disorder; Metabolic syndrome; Scoliosis; Willis-ekbom disease
THSD4	11	78	Alzheimer disease; Autism; Bipolar disorder; Color vision deficiency; Coronary artery disease; Irritable bowel syndrome; Major depressive disorder; Obstructive pulmonary disease; Parkinson disease; Schizophrenia; Scoliosis
TMCO5A	11	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Obstructive pulmonary disease; Schizophrenia; Scoliosis
TMPRSS5	11	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Color vision deficiency; Major depressive disorder; Mood disorder; Neurotic disorder; Obstructive pulmonary disease; Schizophrenia
ZCCHC7	11	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cardiovascular disease; Dementia; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Osteoarthritis; Schizophrenia
ZNF184	11	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Cannabis abuse; Color vision deficiency; Gout; Major depressive disorder; Neurotic disorder; Obesity; Post-traumatic stress disorder; Substance abuse
ADARB1	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Major depressive disorder; Metabolic syndrome; Osteoarthritis; Schizophrenia
ADGRB3	10	78	Alzheimer disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Metabolic syndrome; Migraine; Oligodendroglioma; Schizophrenia; Scoliosis; Willis-ekbom disease
ADGRL4	10	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Color vision deficiency; Dementia; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Schizophrenia
ADRB1	10	78	Cardiovascular disease; Color vision deficiency; Congestive heart failure; Diabetes mellitus type 2; Heart failure; Hypertension; Insomnia; Major depressive disorder; Mood disorder; Obesity
ADRB2	10	78	Autism; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Hypertension; Insomnia; Metabolic syndrome; Myocardial infarction; Obesity; Obstructive pulmonary disease
AGBL2	10	78	Coronary artery disease; Dementia; Diabetes mellitus type 2; Heart failure; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder
AGER	10	78	Alzheimer disease; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Myocardial infarction; Obesity; Obstructive pulmonary disease; Osteoarthritis; Schizophrenia
ANKS1B	10	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Schizophrenia
ASCC3	10	78	Attention deficit hyperactivity disorder; Bipolar disorder; Diabetes mellitus type 2; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Post-traumatic stress disorder; Substance abuse
ATP2B1	10	78	Atrial fibrillation; Autism; Cardiovascular disease; Coronary artery disease; Heart failure; Hypertension; Major depressive disorder; Migraine; Myocardial infarction; Stroke

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
BAZ1B	10	78	Alzheimer disease; Atrial fibrillation; Autism; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Metabolic syndrome; Migraine; Stroke
BCL11B	10	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Dementia; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Schizophrenia; Willis-ekbom disease
BICC1	10	78	Cardiovascular disease; Coronary artery disease; Gout; Hypertension; Major depressive disorder; Metabolic syndrome; Migraine; Obesity; Oligodendroglioma; Schizophrenia
BPTF	10	78	Anxiety disorder; Attention deficit hyperactivity disorder; Diabetes mellitus type 2; Heart failure; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Post-traumatic stress disorder; Substance abuse
BRAF	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Dementia; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Schizophrenia
BTN3A2	10	78	Autism; Bipolar disorder; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Insomnia; Irritable bowel syndrome; Major depressive disorder; Neurotic disorder; Schizophrenia
CCSER1	10	78	Color vision deficiency; Depression; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Parkinson disease; Scoliosis
CD40	10	78	Attention deficit hyperactivity disorder; Bipolar disorder; Diabetes mellitus type 2; Insomnia; Irritable bowel syndrome; Neurotic disorder; Obesity; Post-traumatic stress disorder; Schizophrenia; Substance abuse
CDH4	10	78	Alzheimer disease; Bipolar disorder; Color vision deficiency; Dementia; Gastroesophageal reflux disease; Hypertension; Major depressive disorder; Migraine; Obesity; Willis-ekbom disease
CELSR2	10	78	Atrial fibrillation; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Stroke
CNTNAP5	10	78	Alzheimer disease; Anxiety disorder; Attention deficit hyperactivity disorder; Gastroesophageal reflux disease; Insomnia; Major depressive disorder; Post-traumatic stress disorder; Schizophrenia; Substance abuse; Willis-ekbom disease
CRH	10	78	Alzheimer disease; Anxiety disorder; Bipolar disorder; Depression; Major depressive disorder; Mood disorder; Obesity; Panic disorder; Schizophrenia; Substance abuse
CRHR1	10	78	Anxiety disorder; Autism; Bipolar disorder; Depression; Major depressive disorder; Mood disorder; Neurotic disorder; Obesity; Osteoarthritis; Post-traumatic stress disorder
CUX1	10	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Depression; Major depressive disorder; Metabolic syndrome; Migraine; Osteoarthritis; Schizophrenia; Substance abuse
CWC22	10	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Gout; Major depressive disorder; Metabolic syndrome; Obesity; Schizophrenia
CXCL8	10	78	Bipolar disorder; Coronary artery disease; Depression; Gastroesophageal reflux disease; Heart failure; Hypertension; Major depressive disorder; Myocardial infarction; Osteoarthritis; Stroke
DCDC1	10	78	Attention deficit hyperactivity disorder; Bipolar disorder; Cardiovascular disease; Gout; Hypertension; Insomnia; Major depressive disorder; Osteoarthritis; Substance abuse; Willis-ekbom disease
DLC1	10	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Obesity; Obstructive pulmonary disease; Schizophrenia
DLGAP2	10	78	Alzheimer disease; Autism; Bipolar disorder; Color vision deficiency; Insomnia; Major depressive disorder; Neurotic disorder; Osteoarthritis; Schizophrenia; Stroke
DOCK4	10	78	Alzheimer disease; Atrial fibrillation; Autism; Color vision deficiency; Diabetes mellitus type 2; Insomnia; Migraine; Oligodendroglioma; Post-traumatic stress disorder; Schizophrenia
DRD1	10	78	Autism; Bipolar depression; Bipolar disorder; Depression; Hypertension; Major depressive disorder; Obesity; Parkinson disease; Schizophrenia; Venous thromboembolism
DRD4	10	78	Anxiety disorder; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Depression; Major depressive disorder; Mood disorder; Schizophrenia; Scoliosis
EP300	10	78	Congestive heart failure; Diabetes mellitus type 2; Heart failure; Insomnia; Irritable bowel syndrome; Major depressive disorder; Obesity; Oligodendroglioma; Osteoarthritis; Schizophrenia
EPHB1	10	78	Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Insomnia; Irritable bowel syndrome; Metabolic syndrome; Neurotic disorder; Post-traumatic stress disorder; Schizophrenia; Substance abuse
ESRRG	10	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Color vision deficiency; Major depressive disorder; Migraine; Obstructive pulmonary disease; Parkinson disease; Scoliosis; Substance abuse
EYS	10	78	Diabetes mellitus type 2; Endometriosis; Hypertension; Insomnia; Major depressive disorder; Migraine; Mood disorder; Osteoarthritis; Schizophrenia; Scoliosis
FBN2	10	78	Alzheimer disease; Autism; Cardiovascular disease; Coronary artery disease; Hypertension; Migraine; Myocardial infarction; Obesity; Osteoarthritis; Scoliosis
FES	10	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Cardiovascular disease; Coronary artery disease; Hypertension; Insomnia; Myocardial infarction; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia
FGFR1	10	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Depression; Diabetes mellitus type 2; Gout; Major depressive disorder; Metabolic syndrome; Schizophrenia; Substance abuse
GABBR1	10	78	Alzheimer disease; Autism; Coronary artery disease; Insomnia; Major depressive disorder; Mood disorder; Neurotic disorder; Obstructive pulmonary disease; Post-traumatic stress disorder; Schizophrenia
GABRB2	10	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Dementia; Insomnia; Mood disorder; Post-traumatic stress disorder; Schizophrenia; Substance abuse

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
GCH1	10	78	Alzheimer disease; Bipolar depression; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Hypertension; Obesity; Osteoarthritis; Parkinson disease; Schizophrenia
GIPR	10	78	Alzheimer disease; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Metabolic syndrome; Myocardial infarction; Obesity; Osteoarthritis; Schizophrenia
GPC6	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Schizophrenia
GRIN2A	10	78	Attention deficit hyperactivity disorder; Autism; Bipolar depression; Bipolar disorder; Hypertension; Major depressive disorder; Mood disorder; Schizophrenia; Scoliosis; Substance abuse
HECTD4	10	78	Autism; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Venous thromboembolism
HMGA2	10	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Color vision deficiency; Diabetes mellitus type 2; Hypertension; Insomnia; Obstructive pulmonary disease; Osteoarthritis; Schizophrenia
HMOX1	10	78	Alzheimer disease; Congestive heart failure; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Obesity; Obstructive pulmonary disease; Parkinson disease; Schizophrenia
HTR1B	10	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Depression; Major depressive disorder; Mood disorder; Obstructive pulmonary disease; Scoliosis
ICA1L	10	78	Alzheimer disease; Coronary artery disease; Diabetes mellitus type 2; Insomnia; Metabolic syndrome; Migraine; Myocardial infarction; Neurotic disorder; Obstructive pulmonary disease; Osteoarthritis
IGF1	10	78	Alzheimer disease; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Hypertension; Major depressive disorder; Myocardial infarction; Oligodendroglioma
IL10	10	78	Alzheimer disease; Autism; Coronary artery disease; Depression; Diabetes mellitus type 2; Endometriosis; Irritable bowel syndrome; Major depressive disorder; Myocardial infarction; Schizophrenia
IL1RN	10	78	Autism; Bipolar disorder; Cardiovascular disease; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Myocardial infarction; Obesity; Stroke
ILRUN	10	78	Alzheimer disease; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Heart failure; Hypertension; Insomnia; Metabolic syndrome; Myocardial infarction
INPP4B	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Dementia; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Metabolic syndrome; Schizophrenia; Substance abuse
ITIH4	10	78	Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Major depressive disorder; Myocardial infarction; Neurotic disorder; Obesity; Osteoarthritis; Schizophrenia
ITPR3	10	78	Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Osteoarthritis; Schizophrenia; Venous thromboembolism
KCNB2	10	78	Color vision deficiency; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Insomnia; Major depressive disorder; Metabolic syndrome; Post-traumatic stress disorder; Scoliosis
KCNN2	10	78	Alzheimer disease; Atrial fibrillation; Autism; Bipolar disorder; Cardiovascular disease; Diabetes mellitus type 2; Major depressive disorder; Obesity; Schizophrenia; Stroke
KLHL29	10	78	Attention deficit hyperactivity disorder; Color vision deficiency; Hypertension; Major depressive disorder; Mood disorder; Neurotic disorder; Obesity; Parkinson disease; Schizophrenia; Substance abuse
LIG4	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Dementia; Diabetes mellitus type 2; Irritable bowel syndrome; Major depressive disorder; Schizophrenia; Scoliosis
LIPC	10	78	Alzheimer disease; Atrial fibrillation; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Metabolic syndrome; Obesity; Schizophrenia; Scoliosis; Stroke
LPA	10	78	Atrial fibrillation; Cardiovascular disease; Congestive heart failure; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Stroke
LRP1	10	78	Alzheimer disease; Autism; Coronary artery disease; Depression; Gout; Insomnia; Major depressive disorder; Migraine; Myocardial infarction; Schizophrenia
LSM8	10	78	Attention deficit hyperactivity disorder; Bipolar disorder; Cannabis abuse; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Myocardial infarction; Neurotic disorder; Obesity; Post-traumatic stress disorder
MAPK3	10	78	Atrial fibrillation; Autism; Color vision deficiency; Insomnia; Major depressive disorder; Obesity; Obstructive pulmonary disease; Parkinson disease; Schizophrenia; Substance abuse
MDFIC	10	78	Alzheimer disease; Bipolar disorder; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Obesity; Oligodendroglioma; Osteoarthritis; Schizophrenia
MECOM	10	78	Alzheimer disease; Cardiovascular disease; Coronary artery disease; Gastroesophageal reflux disease; Gout; Heart failure; Hypertension; Irritable bowel syndrome; Major depressive disorder; Obstructive pulmonary disease
MEI4	10	78	Alzheimer disease; Atrial fibrillation; Cardiovascular disease; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Metabolic syndrome; Scoliosis
MYT1L	10	78	Attention deficit hyperactivity disorder; Autism; Color vision deficiency; Depression; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Mood disorder; Neurotic disorder; Schizophrenia
NCOR2	10	78	Alzheimer disease; Atrial fibrillation; Diabetes mellitus type 2; Hypertension; Metabolic syndrome; Migraine; Myocardial infarction; Neurotic disorder; Osteoarthritis; Schizophrenia
NFAT5	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Metabolic syndrome; Osteoarthritis; Substance abuse

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
NOL4	10	78	Bipolar disorder; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Parkinson disease; Schizophrenia; Willis-ekbom disease
NOS2	10	78	Autism; Congestive heart failure; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Myocardial infarction; Schizophrenia; Stroke; Substance abuse
NRG3	10	78	Attention deficit hyperactivity disorder; Bipolar disorder; Color vision deficiency; Endometriosis; Insomnia; Oligodendroglioma; Schizophrenia; Scoliosis; Substance abuse; Venous thromboembolism
NRP1	10	78	Alzheimer disease; Color vision deficiency; Coronary artery disease; Dementia; Diabetes mellitus type 2; Endometriosis; Major depressive disorder; Metabolic syndrome; Migraine; Schizophrenia
OLFM4	10	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Endometriosis; Insomnia; Irritable bowel syndrome; Major depressive disorder; Osteoarthritis; Schizophrenia
OR5V1	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Gout; Insomnia; Major depressive disorder; Migraine; Obstructive pulmonary disease; Schizophrenia
PAPPA	10	78	Atrial fibrillation; Coronary artery disease; Dementia; Diabetes mellitus type 2; Endometriosis; Metabolic syndrome; Migraine; Myocardial infarction; Osteoarthritis; Scoliosis
PDZD2	10	78	Alzheimer disease; Bipolar disorder; Color vision deficiency; Dementia; Major depressive disorder; Myocardial infarction; Obesity; Obstructive pulmonary disease; Parkinson disease; Scoliosis
PLPP3	10	78	Atrial fibrillation; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Metabolic syndrome; Myocardial infarction; Oligodendroglioma; Stroke
POC5	10	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Metabolic syndrome; Migraine; Obesity; Scoliosis; Stroke
PPARGC1A	10	78	Cardiovascular disease; Congestive heart failure; Diabetes mellitus type 2; Gout; Heart failure; Myocardial infarction; Neurotic disorder; Parkinson disease; Schizophrenia; Scoliosis
PPP2R3A	10	78	Alzheimer disease; Atrial fibrillation; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Metabolic syndrome; Myocardial infarction; Neurotic disorder; Schizophrenia
PRKCE	10	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cardiovascular disease; Coronary artery disease; Major depressive disorder; Myocardial infarction; Schizophrenia; Scoliosis; Venous thromboembolism
PSD3	10	78	Alzheimer disease; Color vision deficiency; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gout; Metabolic syndrome; Obesity; Oligodendroglioma; Schizophrenia
PTCH1	10	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Major depressive disorder; Migraine; Neurotic disorder; Obstructive pulmonary disease; Osteoarthritis; Scoliosis
RAB27B	10	78	Anxiety disorder; Bipolar disorder; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Obesity; Oligodendroglioma; Schizophrenia
RBM6	10	78	Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Insomnia; Metabolic syndrome; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia
REN	10	78	Alzheimer disease; Bipolar disorder; Congestive heart failure; Dementia; Depression; Heart failure; Hypertension; Major depressive disorder; Myocardial infarction; Substance abuse
RSPO3	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Cardiovascular disease; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Hypertension; Metabolic syndrome; Obstructive pulmonary disease
RYR2	10	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Congestive heart failure; Diabetes mellitus type 2; Obesity; Schizophrenia; Scoliosis; Substance abuse
SLC35F1	10	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Metabolic syndrome; Oligodendroglioma; Schizophrenia
SLC6A3	10	78	Anxiety disorder; Attention deficit hyperactivity disorder; Bipolar disorder; Dementia; Depression; Major depressive disorder; Mood disorder; Obesity; Parkinson disease; Schizophrenia
SMARCA2	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Major depressive disorder; Oligodendroglioma; Schizophrenia; Scoliosis; Willis-ekbom disease
SNRK	10	78	Attention deficit hyperactivity disorder; Bipolar disorder; Gastroesophageal reflux disease; Insomnia; Major depressive disorder; Obesity; Oligodendroglioma; Post-traumatic stress disorder; Schizophrenia; Substance abuse
SORL1	10	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Cannabis abuse; Dementia; Gastroesophageal reflux disease; Insomnia; Mood disorder; Osteoarthritis; Substance abuse
SPATS2L	10	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Bipolar disorder; Heart failure; Insomnia; Metabolic syndrome; Obstructive pulmonary disease; Schizophrenia; Scoliosis; Substance abuse
SQOR	10	78	Alzheimer disease; Dementia; Diabetes mellitus type 2; Insomnia; Metabolic syndrome; Neurotic disorder; Obesity; Parkinson disease; Scoliosis; Willis-ekbom disease
SREBF1	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Coronary artery disease; Dementia; Diabetes mellitus type 2; Gastroesophageal reflux disease; Metabolic syndrome; Obesity; Parkinson disease; Schizophrenia
SUMF1	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Diabetes mellitus type 2; Obstructive pulmonary disease; Oligodendroglioma; Osteoarthritis; Scoliosis; Substance abuse; Willis-ekbom disease

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
SYT4	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obesity; Parkinson disease; Substance abuse; Venous thromboembolism
TBC1D21	10	78	Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Insomnia; Irritable bowel syndrome; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Oligodendroglioma; Scoliosis
TCF20	10	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Schizophrenia; Substance abuse
THADA	10	78	Atrial fibrillation; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Migraine; Myocardial infarction; Scoliosis
THSD7B	10	78	Attention deficit hyperactivity disorder; Dementia; Diabetes mellitus type 2; Insomnia; Metabolic syndrome; Obesity; Osteoarthritis; Post-traumatic stress disorder; Schizophrenia; Substance abuse
TMEM219	10	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Hypertension; Insomnia; Major depressive disorder; Obesity; Obstructive pulmonary disease; Schizophrenia
TNRC6A	10	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Heart failure; Hypertension; Metabolic syndrome; Obstructive pulmonary disease; Substance abuse
TRAF3	10	78	Anxiety disorder; Attention deficit hyperactivity disorder; Diabetes mellitus type 2; Heart failure; Insomnia; Major depressive disorder; Metabolic syndrome; Post-traumatic stress disorder; Schizophrenia; Substance abuse
TRIB1	10	78	Alzheimer disease; Atrial fibrillation; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Metabolic syndrome; Myocardial infarction; Oligodendroglioma; Stroke
TRPM3	10	78	Bipolar disorder; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Migraine; Schizophrenia; Venous thromboembolism; Willis-ekbom disease
TTC29	10	78	Attention deficit hyperactivity disorder; Cannabis abuse; Coronary artery disease; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Oligodendroglioma; Scoliosis; Substance abuse; Willis-ekbom disease
ZHX3	10	78	Atrial fibrillation; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Major depressive disorder; Metabolic syndrome; Migraine; Mood disorder; Myocardial infarction; Stroke
ZMIZ1	10	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Major depressive disorder; Metabolic syndrome; Schizophrenia
ZPR1	10	78	Atrial fibrillation; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Metabolic syndrome; Myocardial infarction; Obesity; Stroke
ACAD10	9	78	Atrial fibrillation; Coronary artery disease; Diabetes mellitus type 2; Gout; Heart failure; Major depressive disorder; Myocardial infarction; Obstructive pulmonary disease; Stroke
ACADS	9	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Congestive heart failure; Diabetes mellitus type 2; Heart failure; Major depressive disorder; Schizophrenia
ACTRT2	9	78	Atrial fibrillation; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Schizophrenia
ADH1B	9	78	Atrial fibrillation; Autism; Cardiovascular disease; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Metabolic syndrome; Obesity
ADRA1A	9	78	Alzheimer disease; Atrial fibrillation; Bipolar disorder; Cannabis abuse; Dementia; Depression; Hypertension; Major depressive disorder; Schizophrenia
ADRA1D	9	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cardiovascular disease; Dementia; Heart failure; Major depressive disorder; Schizophrenia
ADRA2A	9	78	Attention deficit hyperactivity disorder; Color vision deficiency; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Mood disorder; Panic disorder; Schizophrenia
AGMO	9	78	Autism; Color vision deficiency; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Obesity; Oligodendroglioma; Scoliosis
AKT1	9	78	Bipolar depression; Bipolar disorder; Cannabis abuse; Diabetes mellitus type 2; Major depressive disorder; Mood disorder; Obesity; Parkinson disease; Schizophrenia
ARAP2	9	78	Attention deficit hyperactivity disorder; Dementia; Diabetes mellitus type 2; Insomnia; Metabolic syndrome; Obesity; Obstructive pulmonary disease; Scoliosis; Substance abuse
ARFGEF2	9	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Coronary artery disease; Major depressive disorder; Myocardial infarction; Post-traumatic stress disorder; Schizophrenia; Scoliosis
ARHGAP42	9	78	Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Gastroesophageal reflux disease; Hypertension; Myocardial infarction; Obstructive pulmonary disease; Scoliosis
ASIC2	9	78	Autism; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Obesity; Osteoarthritis; Scoliosis
AVP	9	78	Autism; Bipolar disorder; Congestive heart failure; Depression; Heart failure; Hypertension; Major depressive disorder; Schizophrenia; Substance abuse
BAIAP2	9	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Mood disorder; Neurotic disorder; Substance abuse

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
BRINP3	9	78	Coronary artery disease; Diabetes mellitus type 2; Gout; Insomnia; Major depressive disorder; Metabolic syndrome; Myocardial infarction; Obesity; Schizophrenia
BTN2A1	9	78	Autism; Bipolar disorder; Coronary artery disease; Gastroesophageal reflux disease; Major depressive disorder; Neurotic disorder; Obstructive pulmonary disease; Post-traumatic stress disorder; Schizophrenia
C1ORF53	9	78	Attention deficit hyperactivity disorder; Bipolar disorder; Color vision deficiency; Endometriosis; Insomnia; Major depressive disorder; Myocardial infarction; Neurotic disorder; Substance abuse
C8ORF90	9	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Obesity; Schizophrenia
CACNA1A	9	78	Alzheimer disease; Bipolar disorder; Cannabis abuse; Color vision deficiency; Endometriosis; Gastroesophageal reflux disease; Major depressive disorder; Migraine; Substance abuse
CAST	9	78	Attention deficit hyperactivity disorder; Diabetes mellitus type 2; Heart failure; Major depressive disorder; Metabolic syndrome; Obesity; Osteoarthritis; Parkinson disease; Schizophrenia
CCDC171	9	78	Alzheimer disease; Atrial fibrillation; Attention deficit hyperactivity disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Heart failure; Metabolic syndrome; Scoliosis
CD276	9	78	Attention deficit hyperactivity disorder; Bipolar disorder; Color vision deficiency; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Post-traumatic stress disorder; Substance abuse
CDH7	9	78	Alzheimer disease; Bipolar disorder; Depression; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Obesity; Scoliosis
CELF2	9	78	Alzheimer disease; Attention deficit hyperactivity disorder; Color vision deficiency; Major depressive disorder; Neurotic disorder; Obesity; Schizophrenia; Scoliosis; Substance abuse
COL4A2	9	78	Bipolar disorder; Coronary artery disease; Heart failure; Hypertension; Major depressive disorder; Myocardial infarction; Obstructive pulmonary disease; Schizophrenia; Stroke
CPEB4	9	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Cardiovascular disease; Gout; Heart failure; Hypertension; Obesity; Obstructive pulmonary disease; Substance abuse
CPS1	9	78	Alzheimer disease; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Gout; Metabolic syndrome; Migraine; Osteoarthritis; Venous thromboembolism
CTNND2	9	78	Alzheimer disease; Anxiety disorder; Bipolar disorder; Depression; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Schizophrenia; Scoliosis
CYP1A2	9	78	Alzheimer disease; Autism; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gout; Hypertension; Osteoarthritis; Schizophrenia
DBH	9	78	Attention deficit hyperactivity disorder; Bipolar disorder; Cardiovascular disease; Depression; Hypertension; Major depressive disorder; Migraine; Mood disorder; Parkinson disease
DCLK2	9	78	Alzheimer disease; Coronary artery disease; Dementia; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Mood disorder; Myocardial infarction; Osteoarthritis
DDB2	9	78	Attention deficit hyperactivity disorder; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Mood disorder; Schizophrenia; Substance abuse; Venous thromboembolism
DEFB112	9	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cardiovascular disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Scoliosis
DENND1A	9	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Migraine; Stroke; Substance abuse
DLEU7	9	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Cardiovascular disease; Diabetes mellitus type 2; Hypertension; Metabolic syndrome; Obesity; Osteoarthritis; Scoliosis
DPF3	9	78	Atrial fibrillation; Attention deficit hyperactivity disorder; Autism; Diabetes mellitus type 2; Gout; Major depressive disorder; Metabolic syndrome; Obstructive pulmonary disease; Scoliosis
DPP10	9	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Coronary artery disease; Major depressive disorder; Obesity; Schizophrenia; Scoliosis
DPP6	9	78	Attention deficit hyperactivity disorder; Autism; Coronary artery disease; Endometriosis; Migraine; Post-traumatic stress disorder; Schizophrenia; Stroke; Venous thromboembolism
DSCAM	9	78	Alzheimer disease; Autism; Bipolar disorder; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Metabolic syndrome; Obesity; Schizophrenia
EBF1	9	78	Alzheimer disease; Cardiovascular disease; Color vision deficiency; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Obesity
EDNRA	9	78	Congestive heart failure; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Migraine; Myocardial infarction; Scoliosis; Stroke
EGR2	9	78	Alzheimer disease; Autism; Bipolar disorder; Dementia; Diabetes mellitus type 2; Insomnia; Metabolic syndrome; Osteoarthritis; Schizophrenia
ELAVL2	9	78	Attention deficit hyperactivity disorder; Autism; Insomnia; Irritable bowel syndrome; Major depressive disorder; Neurotic disorder; Osteoarthritis; Schizophrenia; Substance abuse
EPO	9	78	Alzheimer disease; Congestive heart failure; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Myocardial infarction; Parkinson disease; Schizophrenia

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
ERG	9	78	Alzheimer disease; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Hypertension; Major depressive disorder; Mood disorder; Myocardial infarction; Osteoarthritis
ETV1	9	78	Alzheimer disease; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Endometriosis; Gout; Insomnia; Major depressive disorder; Migraine
EYA1	9	78	Autism; Diabetes mellitus type 2; Endometriosis; Major depressive disorder; Metabolic syndrome; Migraine; Obstructive pulmonary disease; Oligodendroglioma; Scoliosis
F2	9	78	Alzheimer disease; Autism; Coronary artery disease; Myocardial infarction; Obesity; Osteoarthritis; Schizophrenia; Stroke; Venous thromboembolism
FAM135B	9	78	Alzheimer disease; Attention deficit hyperactivity disorder; Dementia; Gastroesophageal reflux disease; Major depressive disorder; Neurotic disorder; Obesity; Oligodendroglioma; Substance abuse
FAM13A	9	78	Attention deficit hyperactivity disorder; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Hypertension; Metabolic syndrome; Obstructive pulmonary disease; Osteoarthritis; Substance abuse
FASN	9	78	Autism; Congestive heart failure; Depression; Diabetes mellitus type 2; Heart failure; Major depressive disorder; Metabolic syndrome; Obesity; Parkinson disease
FGF5	9	78	Atrial fibrillation; Cardiovascular disease; Coronary artery disease; Gout; Heart failure; Hypertension; Major depressive disorder; Myocardial infarction; Stroke
FSTL4	9	78	Attention deficit hyperactivity disorder; Diabetes mellitus type 2; Endometriosis; Gout; Hypertension; Major depressive disorder; Migraine; Mood disorder; Post-traumatic stress disorder
FUT2	9	78	Alzheimer disease; Attention deficit hyperactivity disorder; Cardiovascular disease; Diabetes mellitus type 2; Hypertension; Metabolic syndrome; Obesity; Osteoarthritis; Schizophrenia
FXR1	9	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Insomnia; Obesity; Schizophrenia; Scoliosis; Substance abuse
GABBR2	9	78	Autism; Color vision deficiency; Depression; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Post-traumatic stress disorder; Schizophrenia; Scoliosis
GABRB1	9	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Cannabis abuse; Color vision deficiency; Major depressive disorder; Obesity; Schizophrenia; Substance abuse
GALNT13	9	78	Alzheimer disease; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Gout; Major depressive disorder; Metabolic syndrome; Obesity; Schizophrenia
GALNT2	9	78	Alzheimer disease; Coronary artery disease; Dementia; Diabetes mellitus type 2; Insomnia; Major depressive disorder; Metabolic syndrome; Neurotic disorder; Schizophrenia
GIPC2	9	78	Bipolar disorder; Congestive heart failure; Diabetes mellitus type 2; Heart failure; Insomnia; Metabolic syndrome; Obesity; Osteoarthritis; Schizophrenia
GMDS	9	78	Cardiovascular disease; Color vision deficiency; Coronary artery disease; Diabetes mellitus type 2; Gout; Hypertension; Myocardial infarction; Obesity; Osteoarthritis
GNB3	9	78	Bipolar disorder; Coronary artery disease; Depression; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Mood disorder; Obesity; Schizophrenia
GPM6A	9	78	Attention deficit hyperactivity disorder; Color vision deficiency; Hypertension; Major depressive disorder; Mood disorder; Neurotic disorder; Obesity; Post-traumatic stress disorder; Schizophrenia
GPX1	9	78	Attention deficit hyperactivity disorder; Autism; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Mood disorder; Obesity
GRIK1	9	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Major depressive disorder; Schizophrenia; Scoliosis; Stroke; Substance abuse
GSTT1	9	78	Alzheimer disease; Bipolar disorder; Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Parkinson disease; Schizophrenia
GTF2I	9	78	Atrial fibrillation; Autism; Cardiovascular disease; Diabetes mellitus type 2; Heart failure; Hypertension; Metabolic syndrome; Migraine; Obstructive pulmonary disease
HACE1	9	78	Alzheimer disease; Attention deficit hyperactivity disorder; Bipolar disorder; Diabetes mellitus type 2; Hypertension; Major depressive disorder; Metabolic syndrome; Schizophrenia; Substance abuse
HDAC4	9	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Diabetes mellitus type 2; Major depressive disorder; Mood disorder; Myocardial infarction; Obstructive pulmonary disease; Schizophrenia
HIF1A	9	78	Bipolar disorder; Congestive heart failure; Depression; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Mood disorder; Myocardial infarction
HINT1	9	78	Alzheimer disease; Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Gout; Major depressive disorder; Schizophrenia; Venous thromboembolism
HLA-C	9	78	Alzheimer disease; Autism; Coronary artery disease; Diabetes mellitus type 2; Gastroesophageal reflux disease; Irritable bowel syndrome; Obstructive pulmonary disease; Osteoarthritis; Schizophrenia
HP	9	78	Cardiovascular disease; Depression; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Mood disorder; Myocardial infarction; Schizophrenia
HTR2C	9	78	Bipolar depression; Bipolar disorder; Depression; Major depressive disorder; Metabolic syndrome; Mood disorder; Obesity; Schizophrenia; Substance abuse
ICAM1	9	78	Alzheimer disease; Atrial fibrillation; Cardiovascular disease; Diabetes mellitus type 2; Hypertension; Myocardial infarction; Obesity; Schizophrenia; Stroke

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
IFI44	9	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Color vision deficiency; Dementia; Diabetes mellitus type 2; Major depressive disorder; Metabolic syndrome; Schizophrenia
IFNG	9	78	Autism; Bipolar disorder; Congestive heart failure; Depression; Diabetes mellitus type 2; Heart failure; Major depressive disorder; Mood disorder; Schizophrenia
IL1R1	9	78	Attention deficit hyperactivity disorder; Autism; Bipolar disorder; Coronary artery disease; Endometriosis; Gout; Major depressive disorder; Schizophrenia; Venous thromboembolism
INPP5A	9	78	Alzheimer disease; Cardiovascular disease; Diabetes mellitus type 2; Gout; Hypertension; Insomnia; Metabolic syndrome; Migraine; Schizophrenia
INSR	9	78	Alzheimer disease; Atrial fibrillation; Autism; Cardiovascular disease; Diabetes mellitus type 2; Gout; Hypertension; Metabolic syndrome; Parkinson disease
IP6K1	9	78	Alzheimer disease; Attention deficit hyperactivity disorder; Endometriosis; Gastroesophageal reflux disease; Insomnia; Major depressive disorder; Obesity; Obstructive pulmonary disease; Post-traumatic stress disorder
ITIH1	9	78	Anxiety disorder; Bipolar depression; Bipolar disorder; Depression; Hypertension; Major depressive disorder; Osteoarthritis; Parkinson disease; Schizophrenia
JCAD	9	78	Alzheimer disease; Attention deficit hyperactivity disorder; Coronary artery disease; Insomnia; Major depressive disorder; Migraine; Myocardial infarction; Obstructive pulmonary disease; Substance abuse
KALRN	9	78	Alzheimer disease; Coronary artery disease; Depression; Major depressive disorder; Myocardial infarction; Oligodendroglioma; Schizophrenia; Stroke; Venous thromboembolism
KCNK3	9	78	Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Heart failure; Hypertension; Major depressive disorder; Metabolic syndrome; Osteoarthritis; Stroke
KCNK5	9	78	Cardiovascular disease; Coronary artery disease; Diabetes mellitus type 2; Gout; Hypertension; Major depressive disorder; Migraine; Myocardial infarction; Obesity
KCNMA1	9	78	Alzheimer disease; Autism; Color vision deficiency; Diabetes mellitus type 2; Metabolic syndrome; Obesity; Osteoarthritis; Schizophrenia; Willis-ekbom disease