

GeDiPNet Cluster 133 -- 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: 2026-10-07 03:15:01. · Rows: 99 · Generated: 2026-10-07 12:42:47

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
SERPINA1	6	10	Chronic obstructive pulmonary disease; Cystic fibrosis; Emphysema; Lung disease; Obstructive airway disease; Pulmonary fibrosis
TNF	6	10	Bronchopulmonary dysplasia; Chronic obstructive pulmonary disease; Cystic fibrosis; Lung disease; Obstructive airway disease; Pulmonary fibrosis
IL1B	5	10	Bronchopulmonary dysplasia; Cystic fibrosis; Lung disease; Obstructive airway disease; Pulmonary fibrosis
TGFB1	5	10	Chronic obstructive pulmonary disease; Cystic fibrosis; Lung disease; Obstructive airway disease; Pulmonary fibrosis
GSTM1	4	10	Bronchopulmonary dysplasia; Cystic fibrosis; Lung disease; Obstructive airway disease
GSTT1	4	10	Bronchopulmonary dysplasia; Cystic fibrosis; Lung disease; Obstructive airway disease
HMOX1	4	10	Chronic obstructive pulmonary disease; Cystic fibrosis; Obstructive airway disease; Pulmonary fibrosis
MBL2	4	10	Bronchopulmonary dysplasia; Cystic fibrosis; Obstructive airway disease; Pulmonary fibrosis
MIF	4	10	Chronic obstructive pulmonary disease; Cystic fibrosis; Lung disease; Obstructive airway disease
MMP9	4	10	Chronic obstructive pulmonary disease; Lung disease; Obstructive airway disease; Pulmonary fibrosis
PTGS2	4	10	Cystic fibrosis; Lung disease; Obstructive airway disease; Pulmonary fibrosis
SFTPA1	4	10	Bronchopulmonary dysplasia; Lung disease; Obstructive airway disease; Pulmonary fibrosis
SFTPB	4	10	Bronchopulmonary dysplasia; Lung disease; Obstructive airway disease; Pulmonary fibrosis
SFTPD	4	10	Bronchopulmonary dysplasia; Chronic obstructive pulmonary disease; Lung disease; Obstructive airway disease
ABCA3	3	10	Emphysema; Lung disease; Pulmonary fibrosis
ACE	3	10	Lung disease; Obstructive airway disease; Pulmonary fibrosis
ADRB2	3	10	Cystic fibrosis; Lung disease; Obstructive airway disease
CD8A	3	10	Chronic obstructive pulmonary disease; Obstructive airway disease; susceptibility to respiratory infections associated with CD8alpha chain mutation
CFTR	3	10	Cystic fibrosis; Lung disease; Obstructive airway disease
CHRNA5	3	10	Emphysema; Lung disease; Obstructive airway disease
CXCL2	3	10	Chronic obstructive pulmonary disease; Obstructive airway disease; Pulmonary fibrosis
CYP1A1	3	10	Chronic obstructive pulmonary disease; Cystic fibrosis; Obstructive airway disease
DSP	3	10	Chronic obstructive pulmonary disease; Obstructive airway disease; Pulmonary fibrosis
ELN	3	10	Chronic obstructive pulmonary disease; Obstructive airway disease; Pulmonary fibrosis
EPHX1	3	10	Chronic obstructive pulmonary disease; Cystic fibrosis; Obstructive airway disease
FAM13A	3	10	Chronic obstructive pulmonary disease; Obstructive airway disease; Pulmonary fibrosis
GSTP1	3	10	Bronchopulmonary dysplasia; Lung disease; Obstructive airway disease
HDAC2	3	10	Chronic obstructive pulmonary disease; Emphysema; Obstructive airway disease
HIF1A	3	10	Chronic obstructive pulmonary disease; Lung disease; Obstructive airway disease
HSPA1A	3	10	Cystic fibrosis; Obstructive airway disease; Pulmonary fibrosis
IL13	3	10	Lung disease; Obstructive airway disease; Pulmonary fibrosis

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
IL1RN	3	10	Bronchopulmonary dysplasia; Obstructive airway disease; Pulmonary fibrosis
IL6	3	10	Chronic obstructive pulmonary disease; Obstructive airway disease; Pulmonary fibrosis
NFE2L2	3	10	Emphysema; Lung disease; Pulmonary fibrosis
NOS2	3	10	Chronic obstructive pulmonary disease; Emphysema; Obstructive airway disease
NOS3	3	10	Chronic obstructive pulmonary disease; Cystic fibrosis; Obstructive airway disease
SFTPC	3	10	Lung disease; Obstructive airway disease; Pulmonary fibrosis
SOD3	3	10	Chronic obstructive pulmonary disease; Obstructive airway disease; Pulmonary fibrosis
TNFRSF8	3	10	Chronic obstructive pulmonary disease; Emphysema; Obstructive airway disease
TP53	3	10	Chronic obstructive pulmonary disease; Emphysema; Obstructive airway disease
AGER	2	10	Chronic obstructive pulmonary disease; Cystic fibrosis
AGTR2	2	10	Cystic fibrosis; Lung disease
AP3B1	2	10	Lung disease; Pulmonary fibrosis
APIP	2	10	Cystic fibrosis; Lung disease
CAT	2	10	Lung disease; Pulmonary fibrosis
CCN2	2	10	Lung disease; Pulmonary fibrosis
CDKN1A	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
CDKN2A	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
CEBPA	2	10	Emphysema; Pulmonary fibrosis
CEBPB	2	10	Cystic fibrosis; Pulmonary fibrosis
CHRM3	2	10	Obstructive airway disease; Pulmonary fibrosis
CHRNA3	2	10	Lung disease; Obstructive airway disease
CRP	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
CSF3	2	10	Lung disease; Pulmonary fibrosis
CXCL1	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
CXCL8	2	10	Chronic obstructive pulmonary disease; Pulmonary fibrosis
CYP1A2	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
DEFB1	2	10	Lung disease; Obstructive airway disease
EDN1	2	10	Obstructive airway disease; Pulmonary fibrosis
EDNRA	2	10	Cystic fibrosis; Lung disease
EEFSEC	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
EHF	2	10	Cystic fibrosis; Lung disease
FOXO3	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
HGF	2	10	Lung disease; Pulmonary fibrosis
HLA-DPB1	2	10	Lung disease; Obstructive airway disease

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
HSPA1B	2	10	Obstructive airway disease; Pulmonary fibrosis
HTR2A	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
ICAM1	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
IL12B	2	10	Obstructive airway disease; Pulmonary fibrosis
IL1A	2	10	Lung disease; Pulmonary fibrosis
KLF12	2	10	Bronchopulmonary dysplasia; Emphysema
KLF5	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
LCN1	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
MMP14	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
MPO	2	10	Cystic fibrosis; Lung disease
MTCL1	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
MUC4	2	10	Cystic fibrosis; Lung disease
NAT2	2	10	Lung disease; Obstructive airway disease
NQO1	2	10	Lung disease; Obstructive airway disease
NR3C1	2	10	Lung disease; Obstructive airway disease
NSMCE3	2	10	Lung disease; lung disease, immunodeficiency, and chromosome breakage syndrome;
PDGFA	2	10	Lung disease; Pulmonary fibrosis
PLAU	2	10	Emphysema; Pulmonary fibrosis
PTX3	2	10	Cystic fibrosis; Pulmonary fibrosis
RAPGEF3	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
RTEL1	2	10	Obstructive airway disease; Pulmonary fibrosis
SCGB1A1	2	10	Lung disease; Obstructive airway disease
SCNN1A	2	10	Cystic fibrosis; Lung disease
SCNN1B	2	10	Cystic fibrosis; Lung disease
SERPINA3	2	10	Cystic fibrosis; Obstructive airway disease
SERPINE1	2	10	Lung disease; Pulmonary fibrosis
SLC9A3	2	10	Cystic fibrosis; Lung disease
TERT	2	10	Obstructive airway disease; Pulmonary fibrosis
TLR4	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
TNFSF8	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
TNK2	2	10	Bronchopulmonary dysplasia; Genetic generalized epilepsy
TNNT2	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
TRPV4	2	10	Chronic obstructive pulmonary disease; Obstructive airway disease
VDR	2	10	Bronchopulmonary dysplasia; Obstructive airway disease