

GeDiPNet Cluster 1 -- 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: 129 · Generated: 2026-10-07 12:42:25

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
HLA-DQA1	42	88	Anti-neutrophil antibody associated vasculitis; Antiphospholipid syndrome; Arthritis; Autoimmune musculoskeletal system disorder; Autoimmune polyendocrine syndrome; Benign hereditary chorea; Bouillaud's disease; Bronchitis; Bullous pemphigoid; Cartilage disease; Central nervous system non-hodgkin lymphoma; Cervical intraepithelial neoplasia; Chorea; Collagenous colitis; Cryoglobulinemia; Cutaneous lupus erythematosus; Diabetic nephropathy type 1; Esophageal achalasia; Gastroparesis; Henoch schoenlein purpura; Immune system disease; Interstitial cystitis; Latent autoimmune diabetes in adults; Lupus nephritis; Lymphedema; Lymphoma; Membranous glomerulonephritis; Myasthenia gravis; Narcolepsy; Nasopharyngeal neoplasms; Obstructive asthma; Ocular sarcoidosis; Oropharyngeal neoplasms; Pemphigus; Pemphigus vulgaris; Rosacea; Sinusitis; Skeletal system disease; Thyroiditis; Uveomeningoencephalitic syndrome; Vogt-koyanagi-harada disease; Wheat allergic reaction
HLA-DQB1	41	88	Acute disseminated encephalomyelitis; Antiphospholipid syndrome; Apolipoprotein b hypobetalipoproteinemia; Arthritis; Autoimmune pancreatitis; Autoimmune polyendocrine syndrome; Benign hereditary chorea; Benign mucous membrane pemphigoid; Benign mucous membrane pemphigoid with ocular involvement; Bouillaud's disease; Bronchitis; Bullous pemphigoid; Cervical intraepithelial neoplasia; Chorea; Churg-strauss syndrome; Diabetic nephropathy type 1; Duodenitis; Esophageal achalasia; Gastritis; Gastroparesis; Head and neck cancer; Henoch schoenlein purpura; Interstitial cystitis; Latent autoimmune diabetes in adults; Lupus nephritis; Lymphoma; Myasthenia gravis; Narcolepsy; Nasopharyngeal neoplasms; Obstructive asthma; Ocular sarcoidosis; Optic neuritis; Oral cavity carcinoma; Oropharyngeal neoplasms; Osteomyelitis; Pemphigus; Pemphigus vulgaris; Respiratory system neoplasm; Tongue cancer; Tonsil cancer; Uveomeningoencephalitic syndrome
HLA-DRB1	36	88	Acute disseminated encephalomyelitis; Antiphospholipid syndrome; Autoimmune musculoskeletal system disorder; Autoimmune polyendocrine syndrome; Benign hereditary chorea; Benign mucous membrane pemphigoid; Benign mucous membrane pemphigoid with ocular involvement; Bouillaud's disease; Bullous pemphigoid; Cartilage disease; Central nervous system non-hodgkin lymphoma; Chorea; Cryoglobulinemia; Cutaneous lupus erythematosus; Gastritis; Henoch schoenlein purpura; Immune system disease; Interstitial cystitis; Lupus nephritis; Lymphedema; Lymphoma; Membranous glomerulonephritis; Myasthenia gravis; Narcolepsy; Nasopharyngeal neoplasms; Optic neuritis; Oropharyngeal neoplasms; Pemphigus; Pemphigus vulgaris; Rosacea; Sinusitis; Skeletal system disease; Thyroiditis; Uveomeningoencephalitic syndrome; Vogt-koyanagi-harada disease; Wheat allergic reaction
HLA-B	8	88	Cervical intraepithelial neoplasia; Diffuse large b-cell lymphoma; Immune system disease; Membranous glomerulonephritis; Myasthenia gravis; Nasopharyngeal neoplasms; Oral cavity carcinoma; Sinusitis
HLA-DRA	7	88	Antiphospholipid syndrome; Bullous pemphigoid; Henoch schoenlein purpura; Hepatitis c induced liver cirrhosis; Interstitial cystitis; Oral cavity carcinoma; Pemphigus vulgaris
IRF4	7	88	Central nervous system non-hodgkin lymphoma; Diffuse large b-cell lymphoma; Lymphoma; Membranous glomerulonephritis; Respiratory system neoplasm; Rosacea; Waldenstrom macroglobulinemia
HLA-DQB3	6	88	Anti-neutrophil antibody associated vasculitis; Henoch schoenlein purpura; Interstitial cystitis; Narcolepsy; Pemphigus vulgaris; Thiopurine immunosuppressant-induced pancreatitis
PTP N22	6	88	Diabetic nephropathy type 1; Immune system disease; Latent autoimmune diabetes in adults; Myasthenia gravis; Uveomeningoencephalitic syndrome; Vogt-koyanagi-harada disease
TERT	6	88	Cri-du-chat syndrome; dyskeratosis congenita, autosomal dominant 2; Head and neck cancer; Nasopharyngeal neoplasms; Osteomyelitis; Tongue cancer
FAS	5	88	Diffuse large b-cell lymphoma; Lupus nephritis; Myasthenia gravis; Uveomeningoencephalitic syndrome; Vogt-koyanagi-harada disease
HLA-DRB5	5	88	Acute disseminated encephalomyelitis; Bullous pemphigoid; Central nervous system non-hodgkin lymphoma; Henoch schoenlein purpura; Myasthenia gravis
C3	4	88	Henoch schoenlein purpura; Lupus nephritis; Membranous glomerulonephritis; Pemphigus
C6ORF15	4	88	Immune system disease; Membranous glomerulonephritis; Myasthenia gravis; Nasopharyngeal neoplasms
CLP TM1L	4	88	Cervical intraepithelial neoplasia; Head and neck cancer; Nasopharyngeal neoplasms; Oral cavity carcinoma
CTL A4	4	88	Immune system disease; Latent autoimmune diabetes in adults; Lupus nephritis; Myasthenia gravis

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
EXOC2	4	88	Central nervous system non-hodgkin lymphoma; Diffuse large b-cell lymphoma; Lymphoma; Waldenstrom macroglobulinemia
HLA-DPB1	4	88	Anti-neutrophil antibody associated vasculitis; Gastroparesis; Myasthenia gravis; Narcolepsy
STAT4	4	88	Autoimmune musculoskeletal system disorder; Disabling pansclerotic morphea of childhood; Immune system disease; Uveomeningoencephalitic syndrome
ATXN2	3	88	Immune system disease; Latent autoimmune diabetes in adults; Myasthenia gravis
BACH2	3	88	Central nervous system non-hodgkin lymphoma; immunodeficiency 60; Latent autoimmune diabetes in adults
CDKN2A	3	88	Diffuse large b-cell lymphoma; Lymphoma; Nasopharyngeal neoplasms
CRP	3	88	Antiphospholipid syndrome; Arthritis; Lupus nephritis
HLA-DOB	3	88	Bullous pemphigoid; Interstitial cystitis; Lymphoma
HLA-DPA1	3	88	Anti-neutrophil antibody associated vasculitis; Interstitial cystitis; Ocular sarcoidosis
HLA-DQB2	3	88	Bullous pemphigoid; Interstitial cystitis; Lymphoma
ITGAM	3	88	Autoimmune musculoskeletal system disorder; Cutaneous lupus erythematosus; Lupus nephritis
MC1R	3	88	Blepharitis; Respiratory system neoplasm; Rosacea
MORG	3	88	Narcolepsy; Nasopharyngeal neoplasms; Optic neuritis
MYD88	3	88	Diffuse large b-cell lymphoma; Lymphoma; Waldenstrom macroglobulinemia
NOTCH4	3	88	Cryoglobulinemia; Interstitial cystitis; Lupus nephritis
PDE2A	3	88	Chorea; Intellectual developmental disorder seizures movement; Oral cavity carcinoma
VPS13A	3	88	Benign hereditary chorea; Chorea; Chorea-acanthocytosis
ABCB1	2	88	Cryoglobulinemia; Diffuse large b-cell lymphoma
ABCG8	2	88	Duodenitis; Gastritis

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
ADCY5	2	88	Benign hereditary chorea; Chorea
ADH1B	2	88	Oral cavity carcinoma; Respiratory system neoplasm
ARPC1B	2	88	Gastritis; platelet abnormalities with eosinophilia and immune-mediated inflammatory disease
ATP4B	2	88	Autoimmune gastritis; Gastritis
ATP6AP1	2	88	congenital disorder of glycosylation type II; Lymphoma
B2M	2	88	Arthritis; Diffuse large b-cell lymphoma
BCL2	2	88	Diffuse large b-cell lymphoma; Lymphoma
BTNL2	2	88	Hepatitis c induced liver cirrhosis; Membranous glomerulonephritis
CA2	2	88	Autoimmune pancreatitis; autosomal recessive osteopetrosis 3
CACNA2D2	2	88	Benign hereditary chorea; Chorea
CAS1	2	88	Peeling skin syndrome with leukonychia and acral punctate keratoses; Pemphigus
CAT	2	88	Diffuse large b-cell lymphoma; Optic neuritis
CCL2	2	88	Henoch schoenlein purpura; Lupus nephritis
CD207	2	88	Birbeck granule deficiency; Narcolepsy
CD40	2	88	Arthritis; Pemphigus
CD40LG	2	88	Antiphospholipid syndrome; Lupus nephritis
CD86	2	88	Diffuse large b-cell lymphoma; Henoch schoenlein purpura
CDH18	2	88	Antiphospholipid syndrome; Gastritis
CDKN2B	2	88	Lymphoma; Nasopharyngeal neoplasms
CEP43	2	88	Immune system disease; Myasthenia gravis
CFB	2	88	Membranous glomerulonephritis; Myasthenia gravis

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
CHRNA1	2	88	Immune system disease; Myasthenia gravis
COL11A2	2	88	Cartilage disease; Interstitial cystitis
COL14A1	2	88	Gastritis; Keratosis palmoplantaris papulosa
COL2A1	2	88	Arthritis; Cartilage disease
CXCL8	2	88	Bullous pemphigoid; Gastritis
CYP2A6	2	88	Bronchitis; Nasopharyngeal neoplasms
DDX6	2	88	Immune system disease; Lymphoma
EBF1	2	88	Blepharitis; Lymphoma
EGFR	2	88	Nasopharyngeal neoplasms; Ocular sarcoidosis
EZH2	2	88	Diffuse large b-cell lymphoma; Lymphoma
FAM76B	2	88	Immune system disease; Myasthenia gravis
FCGR3A	2	88	Arthritis; Lupus nephritis
FKBP	2	88	Interstitial cystitis; Membranous glomerulonephritis
FRMD4A	2	88	Antiphospholipid syndrome; Ocular sarcoidosis
FTO	2	88	Oral cavity carcinoma; Osteomyelitis
GATA2	2	88	Cartilage disease; Lymphedema
GRB7	2	88	Immune system disease; Myasthenia gravis
GSTM1	2	88	Gastritis; Optic neuritis
HLA-C	2	88	Interstitial cystitis; Sinusitis
HLA-DOA	2	88	Interstitial cystitis; Ocular sarcoidosis

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
HSD17B10	2	88	Chorea; hsd10 mitochondrial disease
IFNA2	2	88	Lymphoma; Uveomeningoencephalitic syndrome
IFNAR1	2	88	immunodeficiency 106, susceptibility to viral infections; Narcolepsy
IKZF1	2	88	Lymphoma; Rosacea
IKZF3	2	88	Immune system disease; Myasthenia gravis
IL2	2	88	Bullous pemphigoid; Pemphigus
IL23R	2	88	Arthritis; Vogt-koyanagi-harada disease
IMPDH1	2	88	IMPDH1-related retinopathy; Thyroiditis
KCNMB2	2	88	Cutaneous lupus erythematosus; Diabetic nephropathy type 1
KCTD1	2	88	Ocular sarcoidosis; scalp-ear-nipple syndrome
KIZ	2	88	KIZ-related retinopathy; Lupus nephritis
KMT2D	2	88	Diffuse large b-cell lymphoma; Lymphoma
MAGI3	2	88	Immune system disease; Myasthenia gravis
MATR3	2	88	distal myopathy with vocal cord weakness; Vogt-koyanagi-harada disease
MET	2	88	Lymphedema; Sinusitis
MICA	2	88	Cervical intraepithelial neoplasia; Thyroiditis
MM P2	2	88	Lupus nephritis; Nasopharyngeal neoplasms
MUC21	2	88	Apolipoprotein b hypobetalipoproteinemia; Cutaneous lupus erythematosus
MUC L3	2	88	Interstitial cystitis; Membranous glomerulonephritis
NKX2-1	2	88	Benign hereditary chorea; Chorea
P2RY11	2	88	Cataplexy and narcolepsy; Narcolepsy

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
PDCD1	2	88	Lupus nephritis; Narcolepsy
PFKFB3	2	88	Latent autoimmune diabetes in adults; Ocular sarcoidosis
POMC	2	88	Immune system disease; Myasthenia gravis
PON1	2	88	Henoch schoenlein purpura; Lymphoma
PPAN	2	88	Cataplexy and narcolepsy; Narcolepsy
PPAN-P2RY11	2	88	Cataplexy and narcolepsy; Narcolepsy
PPP1R10	2	88	Interstitial cystitis; Pemphigus vulgaris
PPT2	2	88	Interstitial cystitis; Membranous glomerulonephritis
PRRC2A	2	88	Apolipoprotein b hypobetalipoproteinemia; Membranous glomerulonephritis
PSORS1C1	2	88	Cutaneous lupus erythematosus; Membranous glomerulonephritis
PTCRA	2	88	immunodeficiency 126, susceptibility to; Ocular sarcoidosis
PTGER3	2	88	Benign mucous membrane pemphigoid; Benign mucous membrane pemphigoid with ocular involvement
RNF39	2	88	Immune system disease; Myasthenia gravis
RTN4IP1	2	88	Chorea; optic atrophy 10 with or without ataxia, intellectual disability, and seizures
SFMBT2	2	88	Immune system disease; Myasthenia gravis
SFTA2	2	88	Interstitial cystitis; Membranous glomerulonephritis
SOD2	2	88	Diffuse large b-cell lymphoma; Optic neuritis
SYK	2	88	Arthritis; Diffuse large b-cell lymphoma
TAF5A5	2	88	Lymphedema; Ocular sarcoidosis

Gene	Member Diseases Linked	Cluster Size	Linked Diseases
TBX18	2	88	Immune system disease; Myasthenia gravis
TBX19	2	88	Congenital isolated acth deficiency; Duodenitis
TNFRSF11A	2	88	Immune system disease; Myasthenia gravis
TNIP1	2	88	Immune system disease; Myasthenia gravis
TRIM39	2	88	Cutaneous lupus erythematosus; Interstitial cystitis
TRIM39-RPP21	2	88	Cutaneous lupus erythematosus; Interstitial cystitis
TRPM1	2	88	Immune system disease; Myasthenia gravis
TSBP1	2	88	Hepatitis c induced liver cirrhosis; Membranous glomerulonephritis
TSHR	2	88	Antiphospholipid syndrome; Thyroiditis
TSLP	2	88	Churg-strauss syndrome; Sinusitis
VAR S1	2	88	Interstitial cystitis; neurodevelopmental disorder with microcephaly, seizures, and cortical atrophy
WH R1	2	88	Bullous pemphigoid; Membranous glomerulonephritis
ZBT B46	2	88	Osteomyelitis; Parenchymal hematoma
ZNF365	2	88	Narcolepsy; Uric acid urolithiasis