

Gene Name	N	Chr	Effect Size	P-value	Layer	Model	Ocular phenotypes	Non-ocular phenotypes
<i>TTK</i>	26	6	-0.03	1.27E-05	ONL	MS	Macular thickness	Alcoholism, Basal metabolic rate, Blood pressure, Body mass, Breast cancer, Daytime sleep phenotypes, Erythrocytes, Heel bone mineral density, Height, Lung function, Pancreatic neoplasms
<i>PGM5</i>	21	9	-0.03	4.91E-05	ONL	MS		Bipolar disorder, Blood pressure, Chronic kidney disease, Creatinine levels, Estimated glomerular filtration rate, Leg mass, Metabolite levels, Urate levels
<i>ABCA4</i>	197	1	-0.03	4.34E-05	IS	MS	AMD, Cone-rod dystrophy, Retinitis pigmentosa, Refractive error, Stargardt disease	
<i>PITX2</i>	11	4	-0.03	4.67E-05	IS	MS	Axenfeld Anomaly, Glaucoma, Peters anomaly, Rieger Anomaly, Ring dermoid of Cornea	Acute appendicitis, Arrhythmia, Atrial fibrillation, Hypertension, Ischemic stroke
<i>NR2E3</i>	173	15	0.03	5.42E-06	IS	MS	Abnormality of the eye, Enhanced S-Cone syndrome, Goldmann-Favre syndrome, Macular thickness, Retinitis pigmentosa, Strong/weak meridian, Vertical cup-disc ratio	Adolescent idiopathic scoliosis, Chronic obstructive pulmonary disease, Height, Lung Function, Pulse pressure, Rate of cognitive decline in mild cognitive impairment, Red blood cell count, Urate levels
<i>MYO7A</i>	350	11	0.03	3.33E-05	OS	MS	Retinal dystrophy, Retinitis pigmentosa, Usher syndrome	Allergic disease, BMI, Deafness, Educational attainment, Hand grip strength, Height, Platelet traits, Ulcerative colitis
<i>OCA2</i>	480	15	0.04	2.33E-09	OS	MS	Age-related macular degeneration, Age started wearing glasses, Corneal astigmatism, Eye colour, Macular thickness, Oculocutaneous albinism, Refractive error	ADHD, Ease of Tanning, Educational attainment, Hair colour, Malignant neoplasm of skin, Skin colour, Sunburn, Vitiligo
<i>GDPGP1</i>	50	15	0.03	2.28E-05	OS	MS	Glaucoma, IOP	Allergic disease, Eczema, Heel bone mineral density, Height, Male-pattern baldness, Multiple sclerosis, Platelet traits, Type 2 diabetes, White blood cell traits
<i>ABCD4</i>	15	14	0.03	8.52E-06	IS	LoF	Glaucoma, IOP, Macular thickness, Refractive error, Spherical power	Body mass, Depression, Educational attainment, Height, Lung function, Methylmalonic aciduria and homocystinuria, Neuroticism, Red blood cell traits
<i>CIB3</i>	10	19	-0.03	2.69E-05	IS	LoF	Myopia	Heel bone mineral density, Height, Platelet traits, Urinary metabolites, White blood cell traits