

Gene Symbol	Key	Gene Name	FC	p-value
Slu7		SLU7 splicing factor homolog (<i>S. cerevisiae</i>)	36.57	7.0E-12
Pttg1	Ψ *	pituitary tumor-transforming gene 1	22.58	5.5E-07
5830417110Rik	Ψ *	RIKEN cDNA 5830417110 gene	16.62	6.4E-09
Ublcp1		ubiquitin-like domain containing CTD phosphatase 1	16.12	1.2E-10
Itgav	*	integrin alpha V	13.55	4.6E-06
Gm16432	*	predicted gene 16432	9.04	2.1E-06
Pde4b		phosphodiesterase 4B, cAMP specific	8.88	6.1E-08
Glr1		glycine receptor, alpha 1 subunit	8.30	7.7E-07
Grm6		glutamate receptor, metabotropic 6	8.23	4.1E-05
Ush2a		Usher syndrome 2A (autosomal recessive, mild) homolog (human)	8.05	9.8E-08
Afg3l2		AFG3(ATPase family gene 3)-like 2 (yeast)	7.72	1.1E-08
Anxa6		annexin A6	7.27	6.2E-08
Atox1		ATX1 (antioxidant protein 1) homolog 1 (yeast)	7.01	1.1E-08
Cgn		cingulin-like 1	6.81	2.3E-05
Wdr78		WD repeat domain 78	5.81	6.6E-06
Pgm2		phosphoglucomutase 2	5.80	1.0E-06
Frzb		frizzled-related protein	5.74	2.8E-09
Ssfa2		sperm specific antigen 2	5.25	2.2E-05
Olf550		olfactory receptor 550	5.03	1.7E-05
Lrba		LPS-responsive beige-like anchor	4.69	2.8E-10
Cdc16		CDC16 cell division cycle 16 homolog (<i>S. cerevisiae</i>)	4.42	3.5E-06
Slc36a1		solute carrier family 36 (proton/amino acid symporter), member 1	4.10	1.1E-05
Ptprj		protein tyrosine phosphatase, receptor type, J	3.98	1.3E-06
Aldh1a2		aldehyde dehydrogenase family 1, subfamily A2	3.91	3.8E-05
Cdh2		cadherin-like 24	3.79	4.6E-05
Nfia		nuclear factor I/A	3.51	3.5E-06
Fstl5		follistatin-like 5	3.46	9.6E-07
Ash1l		ash1 (absent, small, or homeotic)-like (<i>Drosophila</i>)	3.31	5.3E-07
Ccl21a	*	chemokine (C-C motif) ligand 21A	3.29	4.9E-06
G3bp1		Ras-GTPase-activating protein SH3-domain binding protein 1	3.27	8.6E-06
Fbxw7		F-box and WD-40 domain protein 7	3.23	1.3E-07
Spire1	*	spire homolog 1 (<i>Drosophila</i>)	3.17	7.6E-07
4933409K07Rik	Ψ *	RIKEN cDNA 4933409K07 gene	3.12	4.4E-06
Arhgef2		rho/rac guanine nucleotide exchange factor (GEF) 2	3.08	9.1E-06
Vdac1		voltage-dependent anion channel 1	3.07	4.1E-08
Trak1		trafficking protein, kinesin binding 1	3.07	9.8E-06
Nav1		neuron navigator 1	3.03	4.2E-05
Hnrpd1		heterogeneous nuclear ribonucleoprotein D-like	2.99	4.4E-09
Stard6		StAR-related lipid transfer (START) domain containing 6	2.79	3.6E-05
Pet112l		PET112-like (yeast)	2.65	1.7E-06
Pogz		pogo transposable element with ZNF domain	2.59	2.0E-06
Rapgef2		Rap guanine nucleotide exchange factor (GEF) 2	2.59	1.1E-06
Hnrmp1		heterogeneous nuclear ribonucleoprotein H1	2.45	6.7E-08
Casz1		castor homolog 1, zinc finger (<i>Drosophila</i>)	2.45	9.2E-06
Alg6		asparagine-linked glycosylation 6 homolog (yeast, alpha-1,3,-glucosyltransferase)	2.40	1.2E-05
Cd164		CD164 antigen	2.39	4.3E-07
Lgr5		leucine rich repeat containing G protein coupled receptor 5	2.32	4.4E-05
D030074E01Rik		RIKEN cDNA D030074E01 gene	2.17	3.2E-05
Gabrg2		gamma-aminobutyric acid (GABA) A receptor, subunit gamma 2	2.06	3.7E-06
Tbc1d15		TBC1 domain family, member 15	1.87	1.4E-05
Rps6		ribosomal protein S6 kinase polypeptide 3	1.80	1.3E-09
Pde8b		phosphodiesterase 8B	1.78	3.4E-06
Poli		poliovirus receptor-related 1	1.71	1.7E-05
Zc3h15		zinc finger CCCH-type containing 15	1.60	6.2E-09
Zfp2		zinc finger protein 26	1.54	1.8E-05

Mta2		metastasis-associated gene family, member 2	1.50	9.6E-06
Ctnna1		catenin (cadherin associated protein), alpha 1	1.44	3.6E-05
Asns		asparagine synthetase domain containing 1	1.41	1.3E-06
Clasp1		CLIP associating protein 1	1.34	3.1E-05
Creb1		cAMP responsive element binding protein 1	1.31	1.5E-06
Cp		ceruloplasmin	1.17	2.9E-06
Tmeff1		transmembrane protein with EGF-like and two follistatin-like domains 1	-1.23	2.5E-05
Guf1		GUF1 GTPase homolog (<i>S. cerevisiae</i>)	-1.30	2.5E-05
C030002C11Rik		hypothetical LOC320400	-1.33	3.9E-05
1700047I17Rik1	*	RIKEN cDNA 1700047I17 gene 1	-1.35	4.4E-05
Rabif		RAB interacting factor	-1.35	2.3E-05
Xpa		xeroderma pigmentosum, complementation group A	-1.36	7.4E-06
Snx24		sorting nexin 24	-1.41	2.8E-05
Zdhhc3		zinc finger, DHHC domain containing 3	-1.41	1.7E-05
Dnajc10		DnaJ (Hsp40) homolog, subfamily C, member 10	-1.42	3.3E-07
Cnot10		CCR4-NOT transcription complex, subunit 10	-1.48	1.7E-05
Pin4		protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin)	-1.48	2.1E-05
Mest	*	mesoderm specific transcript	-1.48	2.2E-05
Cd59a		CD59a antigen	-1.49	9.7E-06
D14Ert449e	*	DNA segment, Chr 14, ERATO Doi 449, expressed	-1.62	2.4E-06
Slc26a7		solute carrier family 26, member 7	-1.75	7.3E-07
Rbm45		RNA binding motif protein 45	-1.78	4.1E-05
BC016201		cDNA sequence BC016201	-1.82	1.6E-06
Anks1b		ankyrin repeat and sterile alpha motif domain containing 1B	-2.07	5.1E-06
Higd1a		HIG1 domain family, member 1A	-2.30	1.6E-12
Dynlt1	Ψ *	dynein light chain Tctex-type 1	-2.32	1.4E-05
Cerkl	*	ceramide kinase-like	-2.39	5.5E-06
Smc2		structural maintenance of chromosomes 2	-2.41	9.7E-06
Cfhr3		complement factor H-related 3	-2.43	2.5E-05
Itga4	*	integrin alpha 4	-2.45	3.0E-06
Ucma		upper zone of growth plate and cartilage matrix associated	-2.49	9.0E-06
Arpc5		actin related protein 2/3 complex, subunit 5-like	-2.59	1.1E-05
Shisa4	♣	shisa homolog 4 (<i>Xenopus laevis</i>)	-2.64	1.1E-06
Rgl1		ral guanine nucleotide dissociation stimulator,-like 1	-2.64	2.0E-05
Tsn	♣	translin	-2.68	3.2E-06
Gatm		glycine amidinotransferase (L-arginine:glycine amidinotransferase)	-2.75	3.6E-05
Tmem144		transmembrane protein 144	-3.12	1.6E-05
Dpp10		dipeptidylpeptidase 10	-3.20	3.9E-05
Nmnat1	*	nicotinamide nucleotide adenyltransferase 1	-3.40	1.9E-05
Timm17a	♣	translocase of inner mitochondrial membrane 17a	-3.49	1.0E-07
Ppp1r12b	♣	protein phosphatase 1, regulatory (inhibitor) subunit 12B	-3.54	2.4E-06
Cdh7	♣	cadherin 7, type 2	-4.19	7.9E-08
Lyrm7	*	LYR motif containing 7	-4.66	2.0E-06
Dars	♣ *	aspartyl-tRNA synthetase	-4.75	9.6E-06
Mcm6	Ψ *	minichromosome maintenance deficient 6 (MIS5 homolog, <i>S. pombe</i>) (<i>S. cerevisiae</i>)	-5.05	7.5E-06
Ube2t	*	ubiquitin-conjugating enzyme E2T (putative)	-5.33	2.9E-05
Dbi	Ψ	diazepam binding inhibitor	-6.81	2.6E-06
Kdm5b	♣	lysine (K)-specific demethylase 5B	-6.90	1.7E-08
Zc3h11a	♣	zinc finger CCCH type containing 11A	-7.39	1.1E-08
Cfhr2	♣ *	complement factor H-related 2	-10.14	2.5E-06
Cacna1s		calcium channel, voltage-dependent, L type, alpha 1S subunit	-11.39	1.4E-05
Btn19		butyrophilin-like 9	-14.55	4.4E-08
Snca	Ψ *	synuclein, alpha	-19.11	3.8E-07
Cfh	♣ Ψ *	complement component factor h	-22.76	1.0E-06
EG214403	♣ *	predicted gene, EG214403	-28.09	1.0E-08

4 **Supplementary Table S5. Genes differentially expressed in neuroretina of aged *Cfh*^{-/-} mice.**
5 Microarray analysis revealed which genes were significantly differentially expressed in the
6 neuroretina of aged *Cfh*^{-/-} mice compared to age-matched wild-type controls. Genes listed in fold
7 change (FC) order. Key: ♣, gene also differentially expressed in young) *Cfh*^{-/-} neuroretina in
8 comparison to age-matched wild-type controls; Ψ, gene also differentially expressed in
9 RPE/choroid of *Cfh*^{-/-} mice when compared to age matched wild-type controls; *, large gene with
10 more than one probe set that showed significant differential expression.