Supplementary Table S1: *Rdy* Candidate Genes/Genomic Regions

Candidate Gene	Former Name*	Disease Category*	Candidate region Human (Chr:position, Mb)†	Candidate region Cat (Chr:position, Mb)‡	Function	Exons
CA4	RP17	adRP	Chr17:55.58	ChrE1:51.62	carbonic anhydrase IV	8
CRX	CORD2, LCA7	adLCA, arLCA, adRP, adCoRD	Chr19:53.02	ChrE2:9.88	transcription factor for rod/cone photorecptor development	4
FSCN2	RP30	adRP, adMD	Chr17:77.11	ChrE1:132.82	photorecptor-specific paralog of the actin-binding protein fascin	5
GUCA1B		adRP, adMD	Chr6:42.26	ChrB2:43.33	guanylate cyclase activating protein 1B	4
IMPDH1	LCA11, RP10	adLCA, arLCA,	Chr7:12.78	ChrA2:211.18	inosine monophosphate dehydrogenase 1	16
NRL	RP27	adRP, arRP	Chr14:23.62	ChrB3:81.25	retinal transcription factor	3
PRPF3	RP18	adRP	Chr1:14.86	ChrC1:110.54	homolog of yeast pre-mRNA splicing factor 3	16
PRPF31	RP11	adRP	Chr19:59.31	ChrE2:3.84	homolog of yeast pre-mRNA splicing factor 31	14
PRPF8		adRP	Chr17:15.01	ChrE1:40.46	homolog of yeast pre-mRNA splicing factor C8	43
PRPH2	RP7, RDS	adRP, adMD	Chr6:42.77	ChrB2:43.93	peripherin 2	3
RHO	RP4	adRP, arRP, adCSNB	Chr3:13.07	ChrA2:61.17	rhodopsin	5
ROM1		adRP	Chr11:62.14	ChrD1:134.78	retinal outer segment membrane protein 1	3
RP1		adRP, arRP	Chr8:55.69	ChrF2:2.39	retinitis pigmentosa 1 protein	4
TOPORS	RP31	adRP	Chr9:32.53	ChrD4:46.22	topoisomerase I-binding arginine/serine-rich protein	3
RP33		adRP	Chr2:cen-q12.1§	ChrA3:81.954§	unknown gene§	---
RP9		adRP	Chr7:33.10	ChrA2:181.69	RP9 protein or PIM1-kinase associated protein 1	6
NR2E3	RP37	arESC, arRP, adRP, adR, arR	Chr15:69.89	ChrB3:42.13	nuclear receptor subfamily 2 group E3	8
RDH12		arLCA, adRP	Chr14:67.24	ChrB3:116.96	retinol dehydrogenase 12	7
SEMA4A	RP35	adRP	Chr1:15.44	ChrF1:87.61	semaphorin 4A	15

*http://www.sph.uth.tmc.edu/Retnet/disease.htm#14.207d; †UCSC Genome Browser was used to identify human gene locations;

‡GARField: Genome Annotation Resource Field *Felis catus* v12.2 was used to identify feline gene locations (17); §Linkage region not gene.

NT not tested; ad: autosomal dominant; ar: autosomal recessive; MD: macular dystrophy; RP: retinitis pigmentosa; CoRD: cone rod dystrophy; ESC: enhanced S-cone syndrome; R: retinopathy; CSNB: congenital stationary night blindness.