

FIGURES

Figure 1:

NQTKATA	TGNNPGR	SADPSA	NSTSVNR	LSPDSSS	MSVRPGG
NTVRSPT	GLHRSSS	NVASPTR	LLGPGRV	VTASRVA	TNQAASR
SQNDERS	ARECNTT	TGRSATI	GGNSTKC	MRADRPD	GCDPRTS
TDNGSRS	GVNGLPK	VTPANPE	MTHAPRA	RMPGHVA	ANPCPDA
RANQTSS	LRGDNPO	VSTTVSC	YLCPTGG	PIPEHAP	GAPPNVG
GSNRTSD	DQTGDSE	RADPLEL	VNSGCPS	PGVPNHT	LSPAARS
SNNASRT	GSCHDST	SNGPCSA	YVGTDSS	KGGDGNR	SHANPPC
PDNFSRS	SHSPPVR	PLSGRTP	ERSNPSK	APAAECF	PSDAQAG
ENHVGRN	DLGAPC	ARDGLPR	AYEPRSD	RASEVPR	VSTTSQR
ATNATRS	GAHRSDS	GSGVASS	TGSSQLR	LPPPPR	IGVGTAR
GGNSTKS	NSRPAAA	HSARTDS	GISRSGV	SDSTVRP	IRPESPR
PTPPGL	DRPQLVR	SGTEGHS	VSTSSSR	ISVRQPV	FELPGHP
IGETPGA	RRDESAR	VDKAVVR	TTATPAR	ARVGGGS	TGLSPNR
DDNRASP	RSDGGMK	ACSDTGR	ASPALA	NVSAARP	IKDPPVR
TTRAPTS	GTELDRA	GGARVAS	IPGRTA	HDAHSSR	PGLAAGW
TDNHAR	ARRTDGP	CSAARLV	GTGDNV	DSTGTRD	RRTLSDA
APTALRN	DSRPVK	GTGTELD	FDNCTDR	ASARDFA	GGGLERS
SPLPATR	GDDRPSR	AQPCALA	GRALQSG	ANSSIRA	AARMPTG
NTVRSP	SQPPINR	PSGRPCE	GLAGMDS	ASGSTPT	KSDARAS
GLTAAHR	PINNPPR	MSQTPAG	VSPTNGR	GKHGVQS	GSPSHEA
KSGAANP	PLRDLGT	TTSRLTS	GRPSIPG	GSDGGGR	VTVPSSR
ATDNHAR	KAVSDRS	MVSGAIA	AATPCTP	GYSRPPS	TTPDCPS
PNSARLA	QRMDARA	RRSDGQN	NAGRVGP	INATGDR	ASPWWPG

Figure 1 (cont'):

VSSDRSV	EGTGQLC	GATGVGK	AATMTVP	RQESRLT	SSGIRQD
VSGVRSR	GQTSRVG	MGAPAQR	CLHDLRT	AKTSLTL	GSGVATG
PSSDSP	PPHLTSR	RGNGQHS	PSRADHN	CQPLRDL	TPARSTD
GATSQTE	TTTFPAR	DRRDCAD	CGEAVLE	LGATNPR	GNTPDQA
SPAPLSR	YVCPAPS	GECRSRD	NPCAGHP	PNGGAMR	TGNNPGP
GGVKGGS	PATARSS	GKLAECF	PTPLGL	KGQVEFR	SKPQALS
ASACETS	ARGTIDS	SSRAAVG	TPLVLP	VSSSTPR	SQNDSPS
GVVRPPS	SLSGSLT	GRDSNRG	PRPHRS	IGRGQGA	NTVRSPH
ASGPRTA	MKREAPH	KHTTTPG	TNNPPP	TRGDGAQ	PAVTLL
GGAGRAD	DLSSRTH	NGSPTPS	LALRTA	APAAGLK	WVARIP
SNPGRS	PVMRRP	AASSPRT	APGAPL	TDPTRCK	DNPGLA
DCGTHS	PVMRRS	INQGPPV	GVLAVR	PSDAQVG	SHANPP
GSNVHP	SLAIVS	TNGPSSR	PAAPT	GMPSTLR	YRPLL
IGETPG	QPLDTH	GSSHAAR	HRSPNSA	NHTLSPR	PLAARA
VSMGSR	PPPRVC	ATNPATR	KGASAPP	PAPCSSA	PTRAPP
WGSSRGE	LRGDNP	NYNPAAP	DSSRLPD	SGPTLQR	PPPATL
GRSDGQR	HSARIDS	RLCSPGE	RRDAAPS	QDGGGGR	RLGGPI
EAPQLAG	MPVSRSG	GVSCPTE	IKPGGHA	TTATPGR	PSSQPA
LAPRTGN	GGELGRR	RTGTLGI	ASRGIER	GETTLGR	RTAPWA
THNHSSS	IGTGTR	GGNSSKC	RLASGGA	SPVSTTR	PSTPAI
RPPDGLR	GSPALRV	MNAPPVR	APGGAPK	SDKFAPT	PDNFP
RGLPQAG	SNATTRA	NRSGEPR	ERSNPTQ	QGSSVNR	PCATSA
IHESPGT	RHESRLT	RTNAMER	MPITLPR	PLDARHS	PRWLAS
RTPHLAS	IGETPRG	GSSSIQR	RGGEVPR	AQNRSAS	ADPPSA
EDAQGHS	ALATPLS	MPPVPQR	GDDSRCS	QHMRASS	KGDGAR
DACEAGP	MSAQGPR	SPVVLSR	RTSDGRP	QRMVARA	PGLTEA
DHISRER	VPPANLR	GSRAYSS	GSGDGED	MTCPPHA	
DCVSTSA	IGGRIGG	SHSRHVA	QGGRSGA	SATCPAP	
VTQQLRH	AHNSAHG	SNATPRA	RGSGAGA	GDRVGD	
SRTGSNQ	SDNCHLP	TASDPQA	RNAALTP	NTVHSPT	
PSPTSAK	AKAVGYG	KNIHPGA	APQCPDP	SGEALRD	

Figure 2:

RANQTSS	VLGSPi	GSTANLR	APANLPR	NRSATDA	ERRLGGS
SHPRPGV	LSRVSSA	GIGSPGR	GNRPSGN	TPATPVC	SFGGAPR
ARSPiHP	HAAGLPK	STNATGR	MGHSSPR	PGSHSLR	PPGLGRS
SFGGAPK	SSHGLRP	HSARTDS	PSSPVAR	TAPAVSQ	ERRLGGR
AARGGGG	ATAGPTK	GGAGNGK	VTSSSTSL	MGAVVAR	PLQAAPT
HTGRGES	ASGPLNR	NNPTPSR	ANMGPDG	ARSMTPV	HRAPNPS
MARAHVP	IALIRFD	SNTSPGR	ALQRPSH	GKGDTAR	RADQTSS
ASRDAQI	AVGVLRs	GRSMSSA	RRGLDPV	PLQAAPH	GIGSPGH
VAKPQIG	AITSLTR	SSAPTRS	SQNDsRS	DAGRRAA	RAKQTSS
ASAPSAR	PQAARST	VSNARIP	RGSDPPR	AAPTPLR	PSRPPPT

TSHGLRP	VARPQIG	SQAARST	AAKPQIG	AVGVHRS	AIMGPDC
RSAGHVv	NRSAADA	ARNPIHP	PTNATGR	YAGRRAA	DAGHRAA
ASRGAQI	HGARTDS	ASMGPDC	PLQAASH	VSNAGIP	RRGLNPV
AAPTPSR	GRSMRSA	RANRTSS	RGSLQNA	IALIWFD	ASGPLNG
PSSSVAR	DEAPWGS	RANQASS	ERRLEGS	SFGSAPR	GEAGNGK
AVGVLRG	SSAPTCS	ANMGPGC	GGAGNGE	SFGGTPK	MGAVVAC
ASGPHNR	TRSPiHP	SITSPGR	YAAGLPK	GHPRPGR	VLGGPI
AARDGGG	ALQRPSR	AARGGGS	MRHSSPR	GRSVSSA	VPAGSPI
SSTSPGR	ASRDAQT	RGSHpNI	SSAPARS	PGSHSPR	ERRLGS

Figure 3:

GAHRSDS	VAGKVPW	NPRATSW	ATHGILK	SSPSMPR	PQPHLAK
YSARAPG	KGDTAAR	VGSAAR	PSGGPPR	NQHSAAR	PALVGTL
VQPGSPR	YARANSA	TVSSAGR	GRVPAPG	SPLAHAK	RDSHPIR
ASRERER	ATADPRR	PSGAPAR	RRDAAGS	DSVHPRH	RYDTPGR
TTIPAGR	LAAGVPR	VDSYDSI	SSPGLPR	VVGVPAR	ASLLTGP
NGAATPR	GPGPILR	NVASPDR	RLHPNVP	SVNAPPR	FSGQGAP
SQETAGL	VSSALGR	GHLKGLT	VPSANAR	VASQRAS	STVQPSR
AATTTGR	GTVQAAS	MNALPRA	RVTTSPN	TGMPGLL	RDRATSP
GRLHPVH	SKVNTVA	GSGPTDR	DRSGSLR	SRSASDR	PPGNQAR
HPADIRS	DTGTHGR	RADRGLV	ASGRSLI	GKARDSA	NSTSVNR
NGRPTSS	VSHTSVG	GPMLQRS	SRVDMVR	GVGPPQH	SVGLGVK
NRPASDK	GDPSYRS	NLKPPAA	ANSVARP	GGVLAGR	AGRSGGY
QARLDPT	TRSLTHP	GTMREI	SVPARQH	SSSAGTR	ASPSFGR
NAPSTVR	GARSNA	QPRRPGI	GLSPPTR	KEPPTAR	FKHPGAA
GHSARSI	GPGAAAK	SISATAR	SSEGVPR	SQAGVLR	RTSHAVG
STRLVPA	VPPAPGK	AHGTSRP	AQYSAAV	RSNVSV	KHERPVS
ATSATQR	LSRSSGS	GSTGTVK	PADPRRT	VEVPLAP	NLGPGAK
NSTRPGV	ATKAPGY	HRNPAVG	RTGKNNG	SLGGSPR	RRLGGIE
NDSRTPC	TAGALGR	SSSARTF	TRDLSR	GPRTSVL	RVRWLVP
VRSHFGS	RGSGAAY	DGWFDTG	PSGLSTK	SATTSR	VRDATAR
TARVNPS	RSGHPGP	ARVAVTP	SSRDSRD	RNTHGLP	NASRPNM
SGVAAVR	KHTPLMG	TSLVAGR	AVDHRLP	SRAHVSA	YAVNRPA
RPARQLD	ATVGPSR	RTNSGPH	RDGASPR	SRTTSQH	SNPALRM
NSGRASS	PGQAANR	RANPHGP	SGARLST	RAAASTG	SAKVAIR
RIGQETR	TDRLAAR	GQPMPSR	ASNVLRF	GGIPSGS	AAVNLGR
SAPGSPR	NATRPAP	ARSTPY	VSSSSRP	TGRSTGY	GATPRAP
NSASQPR	RLNSTAS	SRGHPAP	KTGEPLR	GVGSTVR	VTGTGIR
SASAVAR	NSRPAAA	AGRGYTN	WSGGSPK	TVRGLQG	SLDPRRC
ISSSTAR	RSGAAV	NDPRRNP	SNRPAAA	STSPSPR	AKVSPNS
ALPTSQT	RSDPLVR	VGTGLNR	AGAPSYD	GSQPPGK	GGPYPAR
KLAQTVS	VASLAAR	RSNTTVA	PNAVARS	RVSVVSQ	RDGPPAK
GIAPVAR	TRVASPS	ASPPLR	QLRRDLE	GAENWTR	SPTPTGR
FPPGSAR	GMRATAA	CYLPACA	ATNRVSV	IVSAPTR	GVAARPI

Figure 3 (cont'):

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TRGHLAG	ASVSRQS	ARTPSPG	VATPSSR	ADAGLRPC	SSLPCLAR
RGHASTV	APARLNS	TRTPSPY	GSPSMR	RSRYQQAR	PPLVARLA
RTHRPDD	GRLSVPH	GAQPRNV	RNQTGAA	PGTGRPPP	PQGRARAR
RREGVTA	RGSLQNA	RTAPHFG	HVPPQIR	FPAGPTR	VQPGSPAR
GSYVQAE	RDVASVK	HVSPQIR	SRVGMVR	VIGPLLLR	QHVPPSGR
SYTNAAR	SGNADLS	GKVPHT	PTDPKRV	QAGRCGLR	PPLGLSAR
GRGPLPS	GRGNSVS	ARSATAA	ACRSGGY	AALPIVVR	PPPSNLGR
SGGNAGK	ATPADRM	HRAPAPM	REGVGGK	GARSNAA	QPPPSLAA
GGGRSFS	GGSPPYR	SQPPSQR	HKSARGD	LPPSRRAG	GPSLTPRG
MTTASRQ	PSSGHAH	PNQAPPR	GAHRSDP	HHYPRWPR	GPSLTPAR
AKALAES	TNPRPSV	TAKGIGL	LLDPRRC	GGIPSRQR	GTHSTPAR
GRLTQPS	AASPLEV	GQATKPI	GCLSVPH	TNPPSLGR	QTSDHPPR
CVSRGTC	TSTAYSR	GTHSTPR	GGSIHSG	SSMGPARG	PHQQAGER
ASRAAGA	SATALGR	AVVRSSP	AVNLGR	VPMLPRRR	AGDAAERG
FKPATGA	SGIRLAG	SIAGPPR	PRWIVR	PLRSAPPA	ASVSPSR
PVTRAIP	SVRGAPPR	PLSAPTR	AAANLGR	MPPASPGR	RQPRPALL
SGKPLHG	R	APRANTP	RTGKNGC	LRRQQARC	AGQCCPRQ
TSHRPPA	SSNGTPR	QLPVHNA	ASPPLRA	RAWAFAER	PQRGRVAS
GVRAHGE	RLDGRAS	SPGAGQR	RVMTSPN	GPLACPPR	RRSPVRLR
TDLRPTK	TAPVRMG	PTHIPRS	GLSPPPR	RLPFHASR	RRSQVRLR
INGVKSM	RNAPSHL	NSAGTPR	TRVAPP	RCPPPSEV	QPQAARRR
VAGSTPR	NDPRGPR	GFRGSG	AVTANGR	LAPLTLSR	PQHPWPAP
NGAHLR	SSAHKSL	SVNPTRG	YRTTGRV	PTRLTPAR	ALTLTAPR
YSAGSPK	VSLGGPR	SPQNLRP	SATTTTPR	LSRSSGSA	SVRGAPPR
DDLHARK	SPIVPAR	NATPYPR	ARMGSPR	TLHSHATR	GKVVPTR
GAPRPTI	SRDRPSS	AHQGSPR	NAPTSSR	AGRSGGYA	PTGRSTRY
NPARAVV	YQTPPLR	FNTGAPR	FNTGAPA	AGRATPTW	PGPRTRVR
NFRDASA	LTSTGAR	TASPSHR	RANPRGP	ARADPLNG	QAGPLDAV
TMAPRTP	KRGPDV	PAGIVR	RSGHSGP	RQQRPPVC	RAGPPRAR
AAPPHTR	TGARIAP	SSPALQR	TRSQTHP	GSLLVRLR	HNAQWRTQ
YRTTGQV	TPGSLSR	VPHAPPQ	GKVVPHP	RPDGPSRP	TRDLSPSR
RGAAGTI	LKSDLSR	AARPPAH	GSTGTVR	LRRAPGA	LQLQRKRG
GLAQGLR	PHNKPVS	GPTGLPP	VPPTPGK	KATLRLVR	APTVPSLG
SRSPHVP	GRTHPPY	PKDPLYR	GPRPILR	PPRRQGQC	ANSRRDPP
VHPPQAK	AQMGSPR	SGGANPH	GVENWTR	PSLRPRPC	RCLPPRGY
PVLNPPP	MGAVAAR	ALAPQYR	HTARPHV	PTLRPRPC	AAAGILKA
ARAGRDL	STQRVHP	IISGPPR	IVSTPTR	AGRSGRIC	FKHPGAAA
ARASHLV	VSSSLQR	QTSITPR	QARADRER	SVNPTRGR	GAQPRNVA
PPGYAAL	DHDSPSV	IGPSSPR	QRPTRPGV	NAPGVPGR	RVSVVSQA
VAQQFGR	SRHFSGP	ATHSFEGG	ATVRRRAA	RQRPTHRE	ARPVRAKT
NAPGVPR	SPAMPIR	SLTPPRH	GRVPAPGG	QRPQHREG	LLRRLPLR
TFIGARA	LRVSLPS	SLTPPGH	PRRLPLRR	QRSPAQPG	AGRAAPTE
AVTTNGR	NTTRGNL	SLPHQAR	VPSANARA	QAPGWHPT	LPVSPCMV
FPAGPTR	SNSPAML	CAVNRPA	PVRGAARR	RETALPTR	AGRSPPGR
NAPQSSR	PRDALGR	GIQLPGK	AGSYVQAG	RGSGSWRG	LSHAEPGR
WHAPTHG	SSRITAA	SGGRTAS	AGRGYTNV	GPPAPARR	PLSRRAAR
HSTTS	GPSLTPR	ISMGAPR	GHSARSIA	APPAPARR	ASPSFWPG
LTTGAPR	KEGGVVR	PQAAAFK	GTARGALR	VPPRPWPR	QPGAPAPR
RGNAHGP	KGLHGGM	SGVRLAG	ASREPGAC	RHDSSRGA	PAPATPSA
GRSIHSG	GNQAPAV	SGGRNPH	AALGSLAR	RPYHPTR	QDRTALTT
ALTEGLR	QNRATAA	LRVVGGA	PGVRASPL	QPTAPRHR	FPAGPTSR
AGRSSTW	GQRAPVS	PNRVVGT	QCPPASPG	GTMRRRESR	FPAGPDSR
AAAGILK	LPAMATR	HRAPAPT	PKDPPLPR	QPEGAPAS	GTRPLLWR

Figure 3 (cont'):

QPARLRQG	NPRASSW	AGRGYTD	TDPVPRS	TEVPDHP	GPRPHPA
GRPDTLPP	RYDSPGR	AGRVYTN	TNSRPSV	NSAGTLR	DTGTHER
ATPRPSAA	GIQLLGK	AGRDYTN	GRTTPVR	AVDHRSR	AGRERER
QHLAVAPG	NSTRPRV	AGTGLHQ	ENQAPAV	AGRSPLP	AAPPPYP
TASPQSSR	TTGALGR	GRTTPRT	GLTPPHE	SPTPHRS	ARRWPEC
QLRGAPPR	TAGTLGR	AGAPSF	SSGILGT	GPIGLPP	SGKPLHW
SIAGPPRR	LPAMATP	NPARRRG	GHSAQSI	NATGRPR	GGGRTAS
PPTSLAAR	PPLLWPP	GHSARII	SWGCGCP	GPTGQPP	TSHRLPA
AGASTAVR	RQGVPPPT	GHSGRSI	SGAAAVR	VPSADAR	YAVNGPA
PTTDPVAA	IGPSSPA	RTAPHLV	TRSLDLP	VLSANAR	ARVAATP
AGECRLLR	RPPCRY	GHSARST	SLTPPAR	VPLPTPA	AVSAPCP
RPTGPTAA	IGPTLPP	TRTPLPL	GKSSPHR	VPSAQR	STPHHCC
PLALLRAR	TMAPPHP	KHTPPHG	SSPSMPH	RGSGTAY	TSHPPPC
PARSSPTP	QAHPSPM	ATVGRSR	KAESLNR	TTIPARP	SGGASPH
RRPRHGAR	GGVALMP	NTPAATW	VAAGILK	GAHQSDS	PSPGHAH
PRTPRSRG	VASLAGP	NITRGNL	ACDVSSR	TGRLLSR	RTNFGPH
AATEARAT	KHTPSMG	RADRGLR	IRWGPAP	KEGVLCG	RTNSGPP
HAQAPRHR	GFLARAC	TEMPGLL	ISMGPRA	KEGGCCA	SSLSQRR
HRERAIGL	LPAMPIR	SGEANPH	ISSGAPR	NGGGCCA	QAWRRRG
RAQRAEHC	NRPASDR	SAKVAVR	ASGRSLT	HAVPPPA	SASAPRG
AQAGTLRA	VGSALGR	FKHTGAA	RDPTARP	SSPGLLA	VRRPPPR
PAPATPCG	GHPKGLT	KGDTAAL	PPERPTR	SLPHQAH	QLHRDLE
LPHPHRSR	QTRLDLT	PEGPLYR	SATTLR	ASRARGR	RRLGASR
GTVQAASA	QARLDLT	GITPVAR	QTSIHPR	RSGAAVA	PRTGSAR
GSGPTDRA	SGGECGQ	GIAPVTR	PRRRSTP	VLLAAPA	KQREPAQ
AHGTSRPA	LDRSSLA	ARTLPRG	NDSRTPS	EGGVAQP	LSGDCRF
LRQAPCMV	GPHWPAP	SHASFPA	TRMPGLL	GTVQAVS	SNPALLM
RRTAPLLR	PIAWWGP	TSKPPAA	RGSGAAC	VRPARRR	SGGRTRM
PTLRPPPT	SVNPPGG	GTAPVAR	HRAPAPL	SGNADLG	ATPARPH
HVAPAPLL	RYDAPGG	SRVDMVC	RDGRPPR	PPRPIFG	HRAPAPW
QGAARRYG	PRPAALK	PQQAGER	CSARAPG	HRPRPPG	HRARPHG
RPGVRRLG	TDLRRPR	DSAGTPR	VPHAPRR	GSTGTVN	HRARPPW
RCWQYPEG	PAGSCPR	YSAGHPG	HSTTSGR	PSAPPGQ	PSRPGPH
VPPAPGQG	PIAWWGT	NGPRGPR	VPHASPQ	AGRGYAN	HRAPAPH
QPRRPASR	GARACPR	SSGAGTR	APHAPPQ	ARADPST	ATPDRPP
PPGVPGLL	GRCPCRP	WHAPAPW	VPPCSPA	RSHPAR	PSRPGPP
RASPCRLA	AGRGYSN	VSHSSVG	VPPCSPR	GGGRTRM	GAQLREL
APRPSEFR	GAQPHGM	VAGSTPE	GRLHPAH	AAAPLPM	VAGEVPW
APAPSEFR	HVSPADP	SSERGDQ	RDATVQA	AASPSEV	ATAPRSG
PGEDGATV	PVLNLPG	SSSAGTE	TISATAR	PPGCAAL	SVNPTGG
PPAPPSSES	PRPQPSP	SGGARRL	VRALGG	RNAPPTL	GLSPPTG
PANTHWPA	PYQAPPR	SGGARLL	SSPWLPR	ATPPPPC	SGIRRCR
PPQPPFPR	PVTRGIP	GGGARRL	GSQPPRE	GVAACPI	SVQCSAA
QPRRPGIA	NDSPDPV	AAPPLEV	SLRPAPS	RVAARPI	VSSSRSG
PAQAAPGI	SVRGAPP	SGDADLS	RLTRMFP	GVAARPT	SGIRLPG
HATAPRHR	PAHIPRS	GAHRSDT	AHGTNRP	VDTPTR	NQHSAAG
AAAGTPEG	RGACRTR	TRVAAPS	AQMGSPA	VSHTSVV	GGVLAAG
QPSGPLAG	RGSPQNA	GTRLVPA	DRLSVPH	RTAPPGF	SGVVAVR
HSAPAPPA	SLPSPGP	STAAGAC	NASRRTW	VSHASVG	SGGGCGP
KHTPLMGT	GSYVQAG	FRLAARG	NASRPNH	YSARVPG	SGVATVR
RNNTTVA	RELRAGG	SNRPLLL	GPRTSAL	RTAPRTS	HVPPDP
QARQDPT	AGRGYTY	IPMGAPR	DSAPHR	GPAPLLR	APPSFGR
AKAPAES	AGRATPT	SPPGSAR	PPQAGE	GPAHPAC	RWCPCRP

Figure 3 (cont'):

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GDVLRRP	PTRAHE	PQGRARA	TAGAPWS	TMASRHP	PSRSARR
NQHSAGP	PTRARAR	SATITSR	TRDLVPS	TMAPAPR	NSTPSTA
NQHSTAR	RDPPASS	SATATSR	KTGDAPP	TGSLTHP	RGVASNA
NAPGVPG	PAAPGPS	AQMSSSR	RPSGHVP	TRSPDPP	RSNVVSA
RHLAVAP	QTSITPT	VLPGSPR	MGAVAAP	RGARLST	RTHRPDG
NAPGVPP	YRTTGGS	ELPGSPR	IRPQPPP	SGARLTT	IIVGPPR
SSNGTPP	KRGLDAV	AQPGSPR	RRPLAND	GAPRPTT	SGGRTAC
VAGSTPT	KRGPDTV	NGAATRA	RDSHPHF	GKVVPYT	SVPVRQH
VIGVPAR	YRTLGRS	SSHALQR	DRSRLAS	PNRGSSL	RRAGLDP
NASSTVR	GADRGLV	AATTDGG	VPSRAAR	TGRSAGY	ALRSAPV
GLSPPEH	RADRDV	HPAGIVR	ASRVPSE	AATTTGH	AATTSAY
DSASQPR	ALATGLV	KPGGRSP	GDPSYPQ	SQAGVLH	NDSGPRA
RTAPAPG	PHGPEAR	REPPSPR	TSSAPVP	RVATSPN	GFRGSGR
LAPVAVA	RADRGHV	ASPPPPR	LRVWGRR	RATTSPN	PALNPPP
VRRWRRR	LERHKS	SAKAAIR	NLSRRRR	RRDDSPN	NAPSPSR
RCPWHGY	SGAHKS	TTILAGR	NSRPPPP	GVVARPI	YSPGSPK
RHRRSDV	GPTRCP	AAMNLGR	ARVASRR	RADPRSR	YSAGPPK
YAPTRCG	DPRTSVL	LRSRTLA	GAHRSDV	RSDRPSR	VRSHFGG
VAGQYPE	TGMPGRP	SSRTLAA	AASPSLR	GPGPSWR	KTGGPLR
SQETAGS	SGMPGLL	MGAVAGP	PTRGSLR	HSARCRP	VKSTRRC
HSATSGS	VHSPSTS	PRGTQAR	GAHRSGS	KTVGVPP	MTAASRQ
KRASTRR	AFRAFPD	PTRLPPR	GPVLQRS	TTIPRWP	SAKVGYP
NTGRASS	RAGYQAD	NAAPYPR	GARRSDS	IGPQLPP	AAVPLDV
NSGQASS	GVPRTPI	FNTRAPA	GASPVRL	GPSLTPP	MRATRAR
KGLHGGI	GAPQPTI	QTSIAPA	GRSPVRL	QTSITPP	VPPCPPA
GKGPRLR	ASGAFPD	NSAGTPA	DAHRSDS	PTSVRSA	APTSPWR
NVAPAPA	GAPRPTH	NSTGTPA	AKVVPNS	ASRGLRA	STSPSPQ
FPVWGRR	SVGSSAR	LRNTGPR	PKVSPNS	GMPCYCR	ARASRLV
TPWPVAA	GQRAPVG	VSHGGPR	TNALPRA	NLDGRRR	VPHCSA
NDPRRNR	LSRSSGG	FNTGPPA	MNALRGP	TRRWYAG	KRPQSSR
QLRRDL	TRGTLRA	LIPGPPA	TERPPRP	PVTRATP	GGRCSSD
PTPALQD	RTSHRRR	QTVDHPP	SKVSTVA	VEVPACP	SNSPAMP
RRAPAPR	RTNHA	GPSPTPR	SKVYTVA	TYRLPAP	PNSPAML
RLDDTGL	RPARQLG	RRRSTPR	RSDTTVA	SPRSTLL	SNPPAML
VVRSVPS	LRVSGAR	GPSAYPR	PEQHHR	REQRSRT	SNSPATL
RDVASVN	GATPPSR	GPSYPR	FKPAAGA	RSNRGER	TVRGLRG
TGFAPTN	VTGTGTS	RRAPSTA	SKPATGA	NFRDCDA	AVATNGR
PTRLPR	RDSHPFA	DSVHLHR	YARASSA	PNLGRSA	RTSRAVG
NFRECE	RDSLPIR	DSVRPHR	NSAPRRR	PTGVPS	TPSTGPL
NFRVCER	RDSHPHS	PGRPLTA	NPKPPAA	SVNAPAA	PLSRPEP
RHLGGIE	RVYATHS	VGAGLNR	GMRVTAA	LPASLPQ	TGRSTGT
GVRARGE	EQPMPSR	IGTGLNR	SRSPQFP	LSTGAAA	YSSGAPR
GFGSSGE	SSPFMPR	VGTGQNR	ASTRMFP	FKHRALR	RPRRPGI
WSGGLPE	PLVAASR	QQHLRQP	RRPPECS	APRSAST	SPAMPIC
GSQSPGK	TRGLSPR	LRQRGLE	SRSPRVP	QGRRQPQ	NGAATPP
WSGGSPE	SSPGPPR	GREGSGE	RNTHSLP	SLDPWRC	MTTTSRQ
GGTGTVK	PLSAPLA	YPADIRS	TGARTAP	RVSVPSP	PSGLSTR
REYRDGQ	PAERPHS	PHNKPVE	PVTRAVP	RVFRRST	VGVLRPV
GSTRDGQ	DRSGSAA	ASVSVRA	GDRATSP	LEGGGGR	RPGVLRP
SGRNAGK	AATTAGR	GDPSYAA	PVTARSP	RRHAGRR	GAQHRNV
RDGPPPR	AATATGR	GDLSYRS	RSGHPAP	NLKAAPP	NAPGAPG
HGFAPTK	ATTTTGA	SDPSYRS	TMASRTP	SATAPGR	PNAGSSP
ADLRPTK	PGTRSGA	RLNSRPA	KMAPRTP	RTRKNGG	SLDPPAL

Figure 3 (cont'):

REAWAGP	PPQLHGQ	TTPRPSV	SPASFPA	MNALPQA	AAPPPCP
RDGASPT	SSRGAPP	GNQAPRC	NAPGVLR	RNAHGLP	WLDGLA
VAPTLNV	PRERSWP	GNRGPC	HRVPADP	RTGRPPR	PRPCRHA
DDRRPAP	SVPLAST	GNHGPCC	HVSPPDP	AVVRLSP	VGAVAAR
FKPATGR	TQMGTAP	VSSCLQR	SPIRARP	QGPGLDP	NASPPNM
VAGRVPW	VQPAARA	HFDGGPG	WSGGSPR	TMAPRHP	SVRGGTP
PPLGCPR	TTTPRWP	ARAGRDR	AGGGVPP	GHLQGS	DAPVVRR
INGGEEY	SIAGPPC	RDGSPAK	AVTTNGT	SLTPPLA	NSRGDPR
INGVKSK	ALSTSQA	RPPTAPP	RGGLQNA	SLDAPPA	NCGQALT
TFIGAVP	YAINRPA	NASRPEH	GQGRPPH	RPLGLLS	SPSAGQR
RTHRLTT	NGAHLA	AVDHPPP	DDLHAGR	GVTGLLQ	AVVRSVP
RTRRPDD	RDGASPK	NATRPVP	PQPYLAK	GVGPPSS	TVRLAAR
GGSPVPT	RANSRPH	RPTGLPP	PHAPPGQ	RHSVPQS	KLARTVS
RSRPGGP	ALYGGPS	MNAPSAG	PRRPTGQ	TGMPRPP	GARPVRL
SRSASGR	NLGLGAK	NGTSVNR	ATHGIPQ	PLWWPRL	PQHDLGS
SRTRVGQ	NSAGDPP	WHRPHPV	AQYGAAV	KTGEPLP	DPRATSW
SDSRTPC	LDDRRPR	LASPTQ	AQYTRCC	GPSFTPP	KPHPLMG
NGAPLSR	NATGRPG	WHRPHPS	YRTTGHV	GGSPYP	GGGRSL
PRDDLAE	SGVAAVG	WHCPHPT	GPRASVL	GPDAAL	GDLHARK
EEPPTAR	DGGGRPR	KAESLYR	ASGRSPD	ASTGCGR	NDLHARK
NATPAGP	PPTDSL	KGGVAQP	RCAAAHH	NLKPPRR	DDRTDAR
RTNSRPR	AGAPSCA	YSAPPLR	TGSAWPP	SRSPPPF	RTAASG
NRPASDQ	SPRPTLV	CGHASTV	TRGTVAA	SRTTSHA	HLLPPS
NRPPDPK	TELGRWP	AASPLRG	PHQPRRR	SSTRPRG	IRPSVPR
GSNGPPG	RDSPVPD	RNRPPPT	GRAHAVS	RGPLPHY	KLAQIVS
ACCSGGY	GAPPVRL	IDSYDSI	TRDLSPS	GPGPHSC	AARVNPS
APNLTGP	GTVQAAE	DSARAPG	SSLSSH	SPASFPT	PTDPRRT
SRSPTFP	GLSPPRG	DTGTHWA	IVNAPLA	RFLSSLQ	HHPRGPP
RYQSGSL	GRSDRSD	DTGTMGV	IVSAPLA	QRPPSLA	CTPAHPW
GVGSVR	GRWASST	SSEGEPR	IASAPTR	STSPSP	NGAPTAR
QQRPSA	RARSRSR	SRDLSS	KGPPTAR	RAWAF	HWPQLPP
TVPLRAA	QPGARRQ	SRDRPSQ	PEGRASG	LAGAGAP	TAGVPA
SRSPTR	SSSAGDQ	WLSPALR	PLAGIVR	RCDGAFG	SVRGHP
PSWRSCA	PQPTWPR	TVAPPPL	PPLGLSA	GSRDSRD	PSSTSP
SVGLGVR	AVNSGPR	SGGAEP	AAVNRGP	TSHPPPA	PLSAPL
SVGRGVK	ARADSPS	AARPPRP	MGAVVAR	NDSRTPV	ASQRAH
SVGLGDK	PVLNPSP	NAPSTRG	GAHSTPP	RPRRLVR	DAPRVR
QPALCGP	AAPSPIP	AVSGRPG	VSLGDPR	ARSIHSG	NLKPPR
TMSLTHP	PTHIPRI	SQETAGW	RWFAPLP	PTPHPSQ	NSAGPR
GAENWTH	TPHPPPL	GAQLRNV	MGAVATR	VRSHFSS	RARSNA
AHQGLSR	LPHRARP	RSRCRGG	LPCYGRP	SIAGPPV	GARSNT
NRPASDE	PKDPPLP	KGRARRY	GVGPCRP	SPRRRPA	ASPPHR
GAPAQEC	ATKARGL	INGVEEY	GRLAQPS	IVSAPTS	SNRPAA
LRVSLPG	SGGGTAS	AGRGSTW	RPRQQCQ	ASNVPPV	GPRSNA
HPVDIRE	SGGRHGV	ATHSSGG	AHSGQSP	RPGRCHS	
RVRWPVP	DAPRRPP	RARACPR	PAERPPP	RPPCSPA	
LGRSSGS	LPPGSAR	SPALLPT	PQRGGSL	AAPPPLP	

Figure 4:

Variants identified in whole retina	Variants identified in rods	Variants identified in cones
LRGDNPQ	RGSDPPR	NGRPTSS
VSPTNGR	RGSHPI	RGSGAAY
LRGDNP	ERRLRGS	AVTTNGR
RGSGAGA	RGSLQNA	RGSLQNA
TRGDGAQ		GFRGSGL
		HKSARGD
		AVTANGR
		RGSGSWRG
		RGSPQNA
		SSERGDQ
		RGSGAAC
		RGSGTAY
		PTRGSLR
		GFRGSGR
		AVATNGR
		AGRGSTW
		NSRGDPR

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Figure 5:

Peptide	# of NGS reads in DNA from whole retina	# of NGS reads in DNA MAC-sorted rods	# of NGS reads in DNA from FAC-sorted cones
GAHRSDS	12	0	333
NSRPAAA	12	0	43
GLSPPTR	1	0	37
SSPGLPR	1	0	37
NSTSVNR	8	0	32
RGSLQNA	0	2	25
VSSSLQR	1	0	21
PNQAPPR	1	0	17
RANQTSS	30	332	0
HSARTDS	9	141	0
NNPTPSR	1	137	0
SQNDSRS	67	88	0

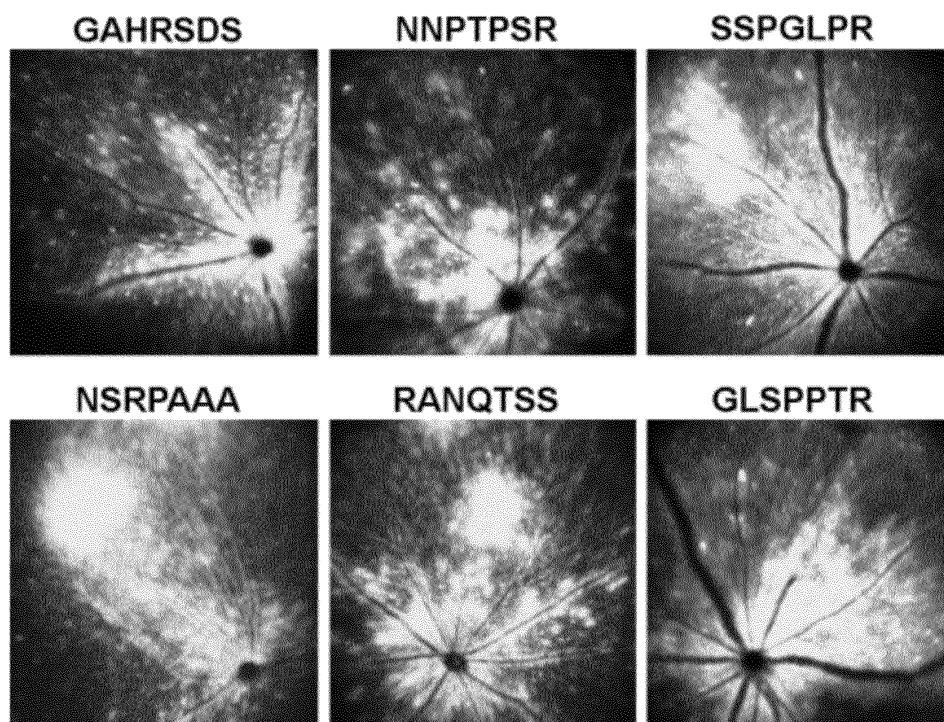
Figure 6:

Figure 7:

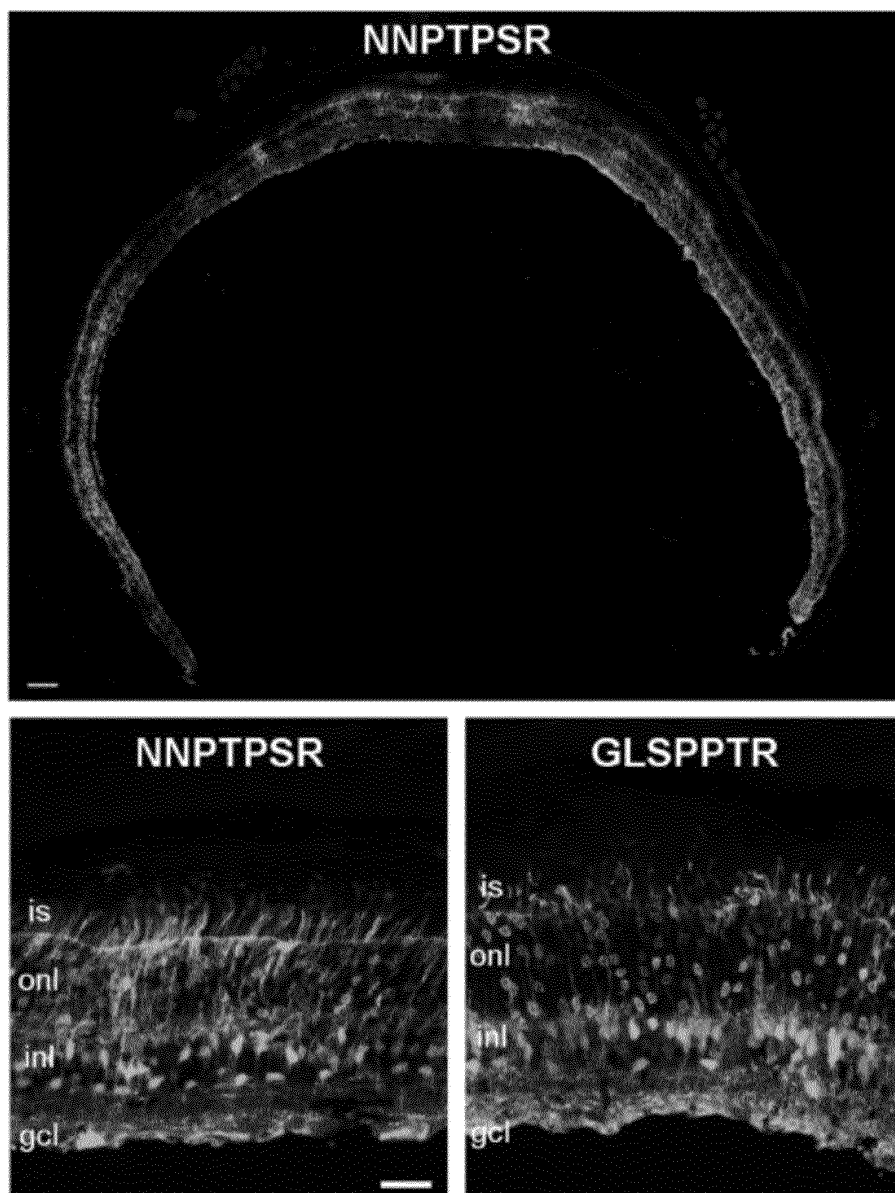


Figure 8:

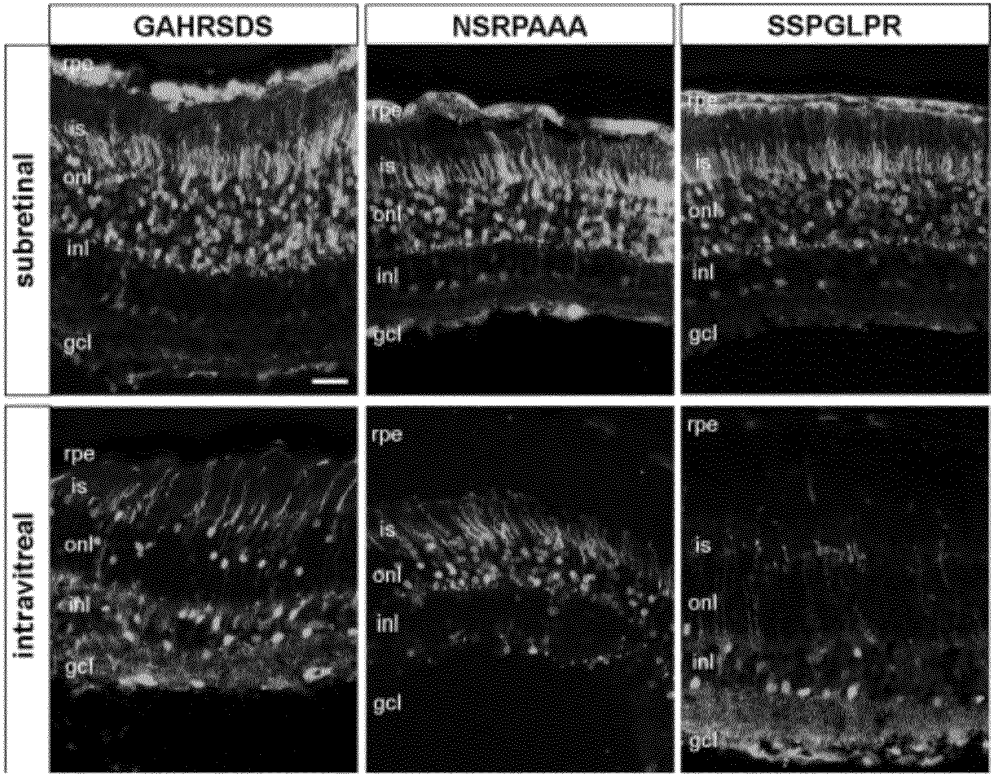


Figure 9:

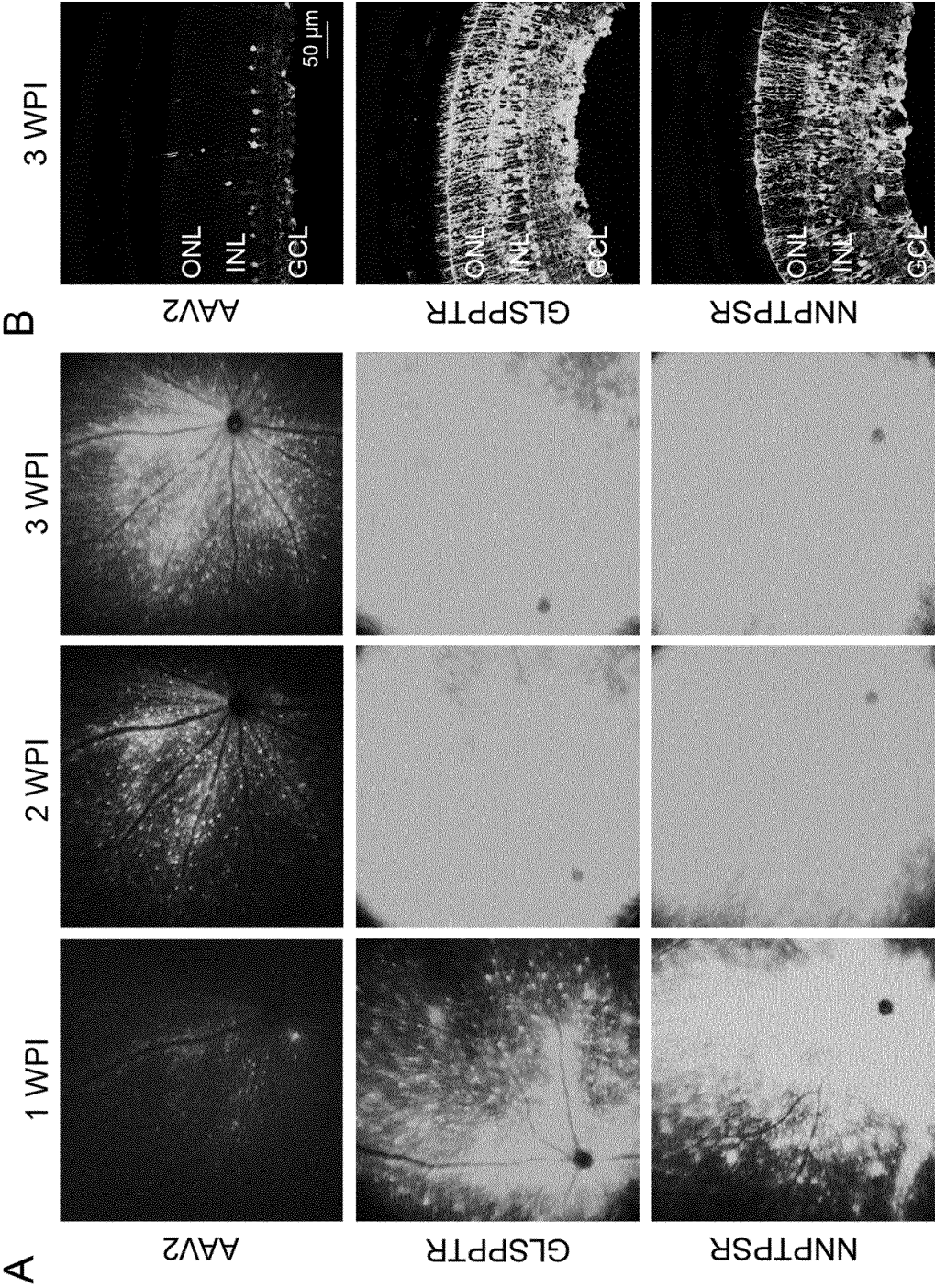


Figure 10:

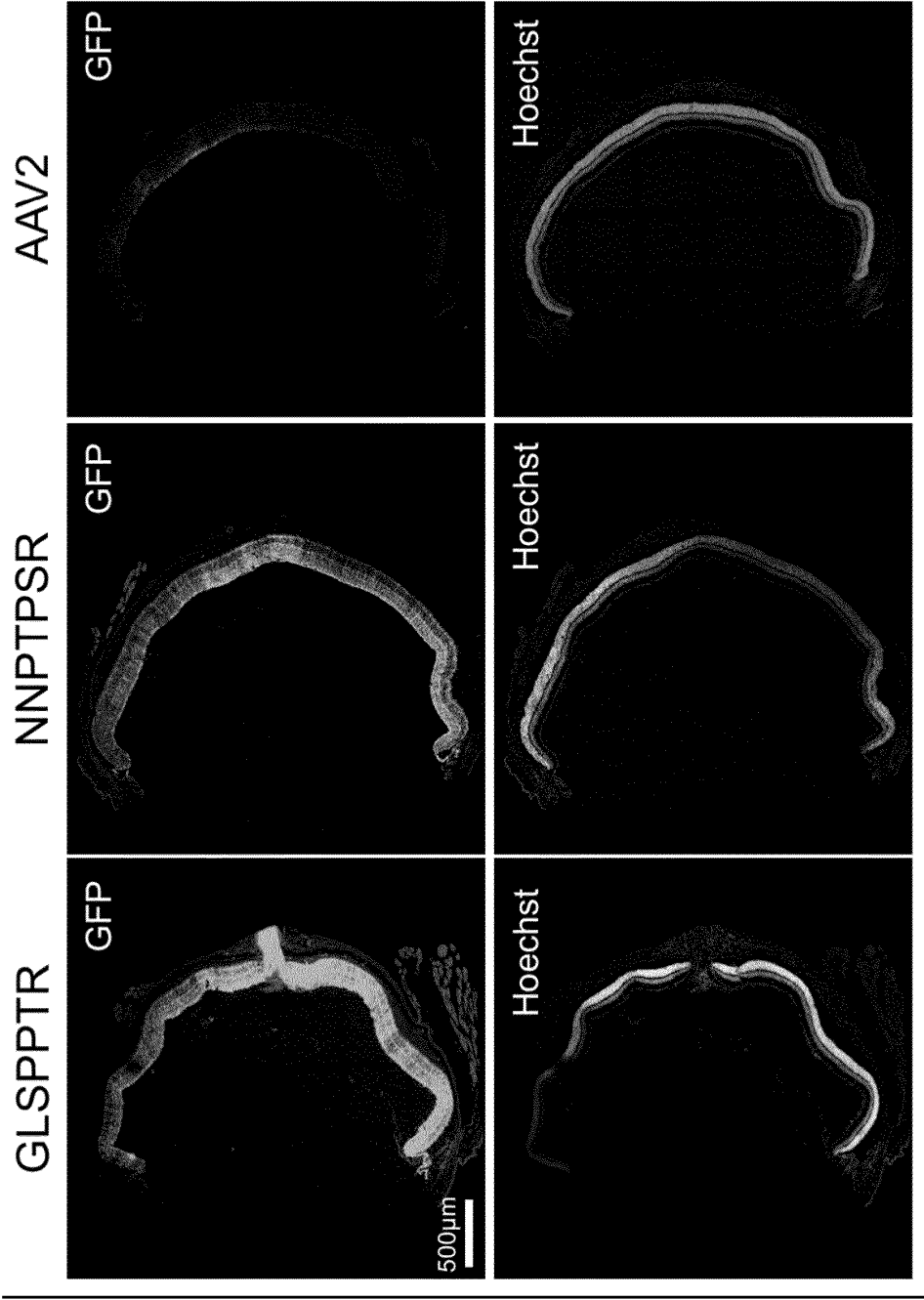


Figure 11:

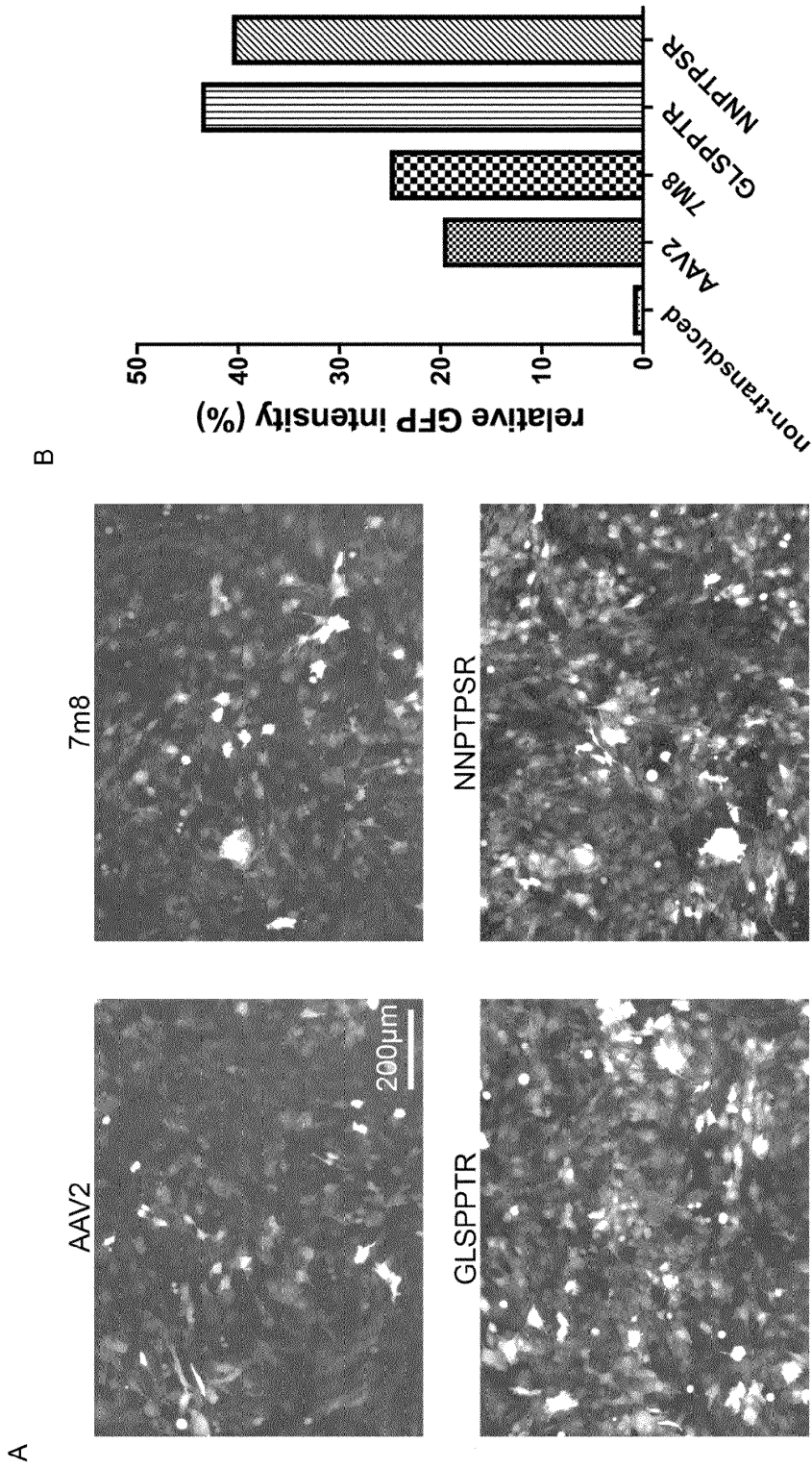


Figure 12:

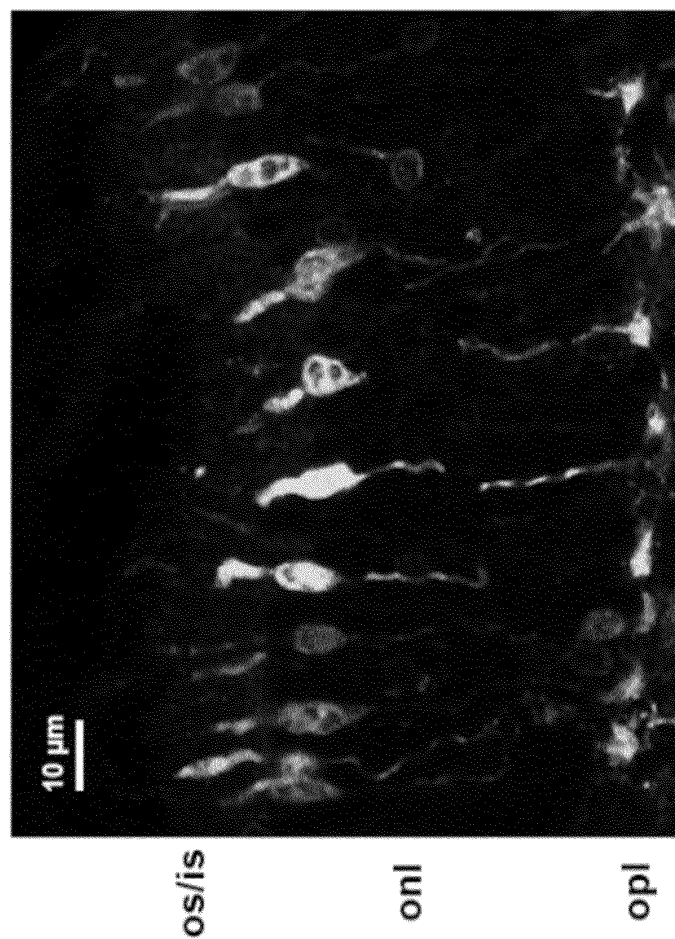


Figure 13:

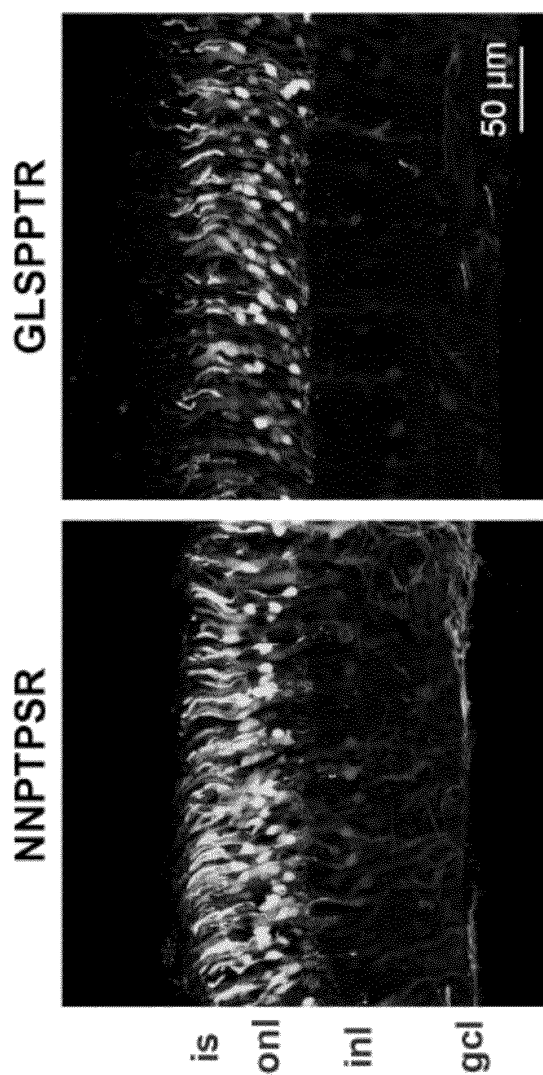


Figure 14:

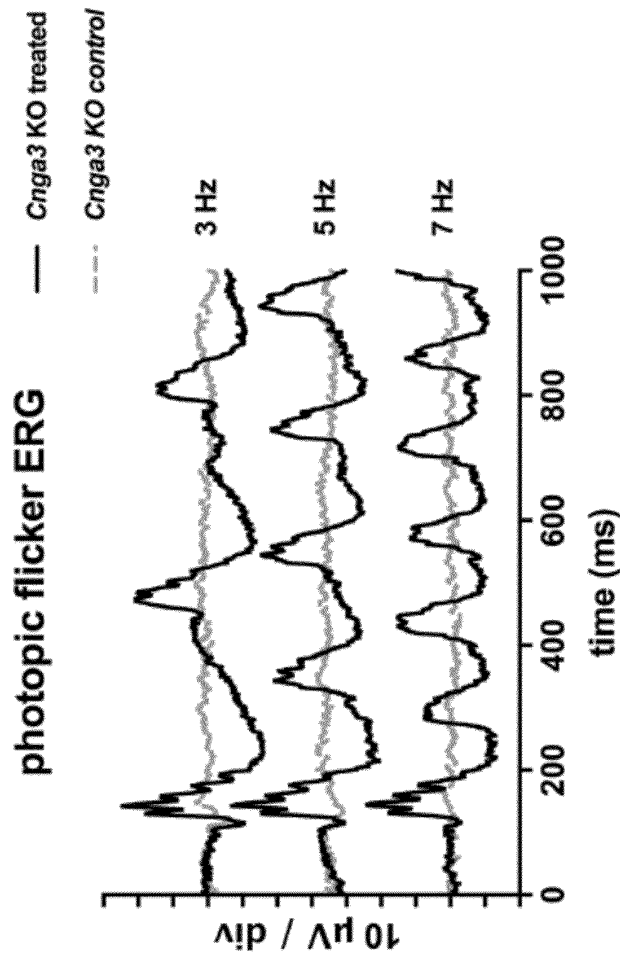


Figure 15:

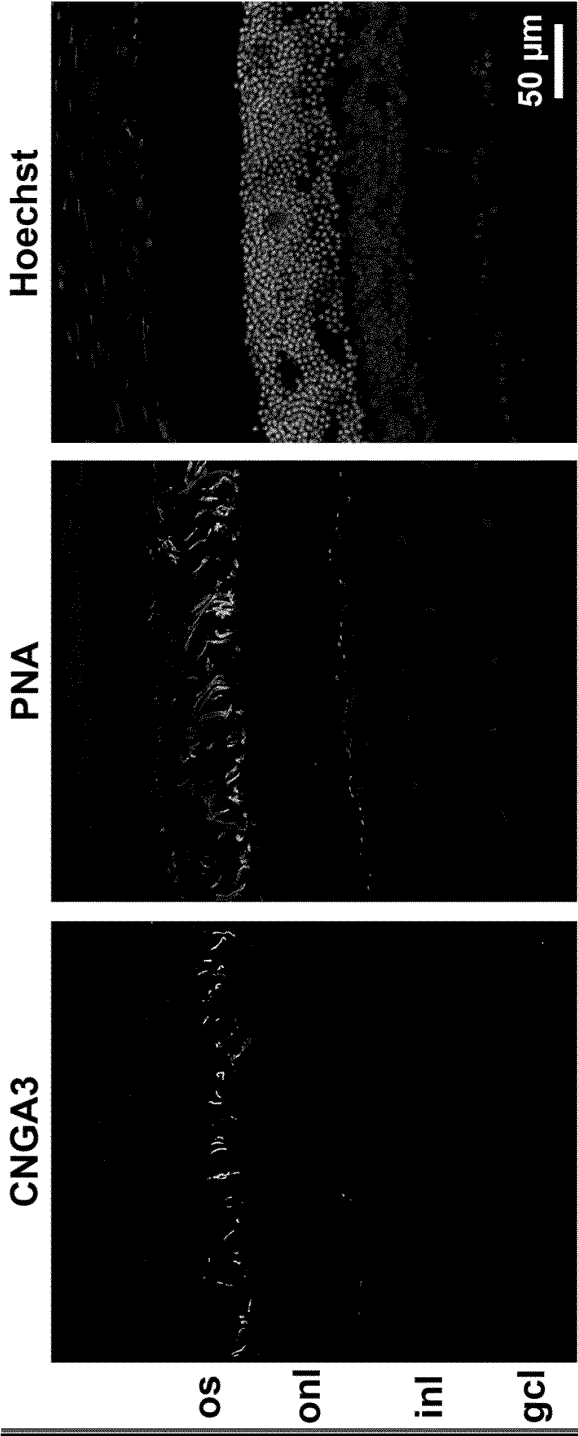


Figure 16: