

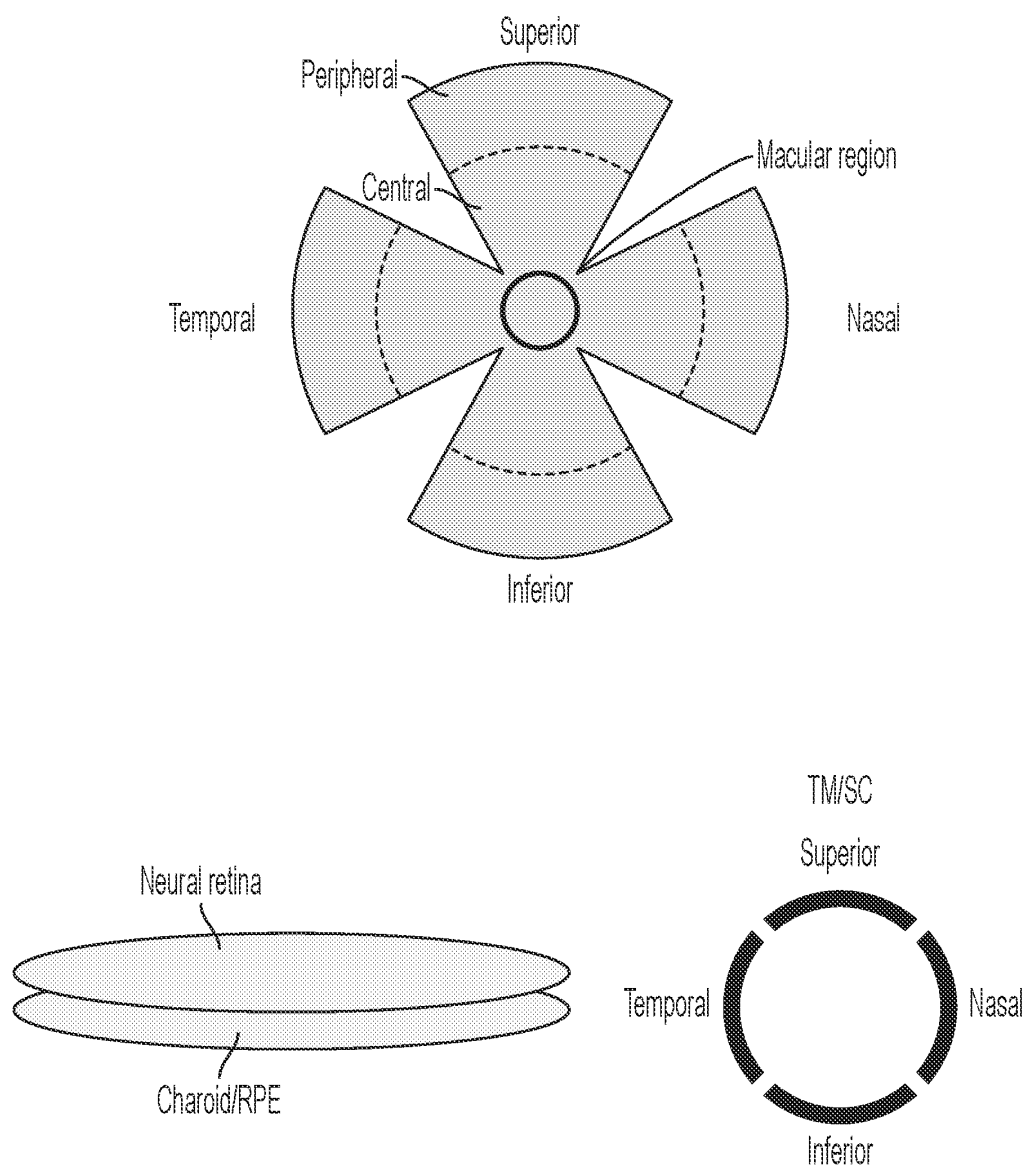


FIG. 1

AAV5	MSFVDHPPDWLEE-VGEGLREFLGLLEAGPPKPKPNQQHQDQARGLVLPGYNYLGPNGLD	59
AAV2	MAADGYLPDWLEDTLSEGIQWWKLKPGPPPKPAERHKDDSRGLVLPGYKYLGPFGNLD	60
AAV9	MAADGYLPDWLEDNLSEGIREWALKPGAPQPKANQQHQDNARGLVLPGYKYLGPNGLD	60
AAV8	MAADGYLPDWLEDNLSEGIREWALKPGAPKPKANQQKQDDGRGLVLPGYKYLGPFGNLD	60
AAVrh74	MAADGYLPDWLEDNLSEGIREWDLKPGAPKPKANQQKQDNGRGLVLPGYKYLGPFGNLD	60
AAV5	RGEPVNRADDEVAREHDISYNEQLEAGDNPYLKYNHADAEEFQEKLADDTSGGNGLKAVFQ	119
AAV2	KGEPVNEADAAALEHDKAYDRQLDSGDNPYLKYNHADAEEFQERLKEDTSGGNGLGRAVFQ	120
AAV9	KGEPVNAADAAALEHDKAYDQQLKAGDNPYLKYNHADAEEFQERLKEDTSGGNGLGRAVFQ	120
AAV8	KGEPVNAADAAALEHDKAYDQQLQAGDNPYLRYNHADAEEFQERLQEDTSGGNGLGRAVFQ	120
AAVrh74	KGEPVNAADAAALEHDKAYDQQLQAGDNPYLRYNHADAEEFQERLQEDTSGGNGLGRAVFQ	120
AAV5	AKKRVLEPFGLVEEGAKTAPTGKRIDNHFPKRKKARTEEDSK-----PS-----TSSDA	168
AAV2	AKKRVLEPLGLVEEPVKITAPGKKRPVEHSPV-EPDSSSGTGKAGQQPARKRLNFGQTGDA	179
AAV9	AKKRLLEPLGLVEEAAKTAPGKKRPVEQSPQ-EPDSSAGIGKSGAQPAKKRLNFGQTGDT	179
AAV8	AKKRVLEPLGLVEEGAKTAPGKKRPVEPSPQSPDSSTGIGKKGQQPARKRLNFGQTGDS	180
AAVrh74	AKKRVLEPLGLVESPVKITAPGKKRPVEPSPQSPDSSTGIGKKGQQPARKRLNFGQTGDS	180
AAV5	<u>EAGPSGSQQLOIPAQPASSLGADTMSAGGGGPLGDNNQGADGVGNASGDWHCDSTWMGDR</u>	228
AAV2	<u>DS-VPDPQPLGQPPAAPSGLTNTMATGSGAPMADNNEGADGVGNSSGNWHCDSTWMGDR</u>	238
AAV9	<u>ES-VPDPQPIGEPPAAPSGVGSILTMASGGGAPVADNNEGADGVGSSSGNWHCDSQWLGDR</u>	238
AAV8	<u>ES-VPDPQPLGEPPAAPSGVGPNMTAAGGGAPMADNNEGADGVGSSSGNWHCDSTWLGDR</u>	239
AAVrh74	<u>ES-VPDPQPIGEPPAGPSGLSGTMAAGGGAPMADNNEGADGVGSSSGNWHCDSTWLGDR</u>	239
AAV5	<u>VVTKSTRTWLPSYNNHQYREIKSGSVDG-SNANAYFGYSTPWGYFDNRFHSHWSPRDW</u>	287
AAV2	<u>VITTSTRTWALPTYNNHLYKQISS--QSGASNDNHYFGYSTPWGYFDNRFHCHFSPRDW</u>	296
AAV9	<u>VITTSTRTWALPTYNNHLYKQISNSTSGGSSNDNAYFGYSTPWGYFDNRFHCHFSPRDW</u>	298
AAV8	<u>VITTSTRTWALPTYNNHLYKQISNGTSGGATNDNTYFGYSTPWGYFDNRFHCHFSPRDW</u>	299
AAVrh74	<u>VITTSTRTWALPTYNNHLYKQISNGTSGGSTNDNTYFGYSTPWGYFDNRFHCHFSPRDW</u>	299
AAV5	QRLINNYWGFPRPSLRVKIFNIQVKEVTQDSTTTIANNLTSTVQVFTDDDYQLPYVVG	347
AAV2	QRLINNNWGFPRPKRLNFKLFNIQVKEVTQNDGTTTIANNLTSTVQVFTDSEYQLPYVLGS	356
AAV9	QRLINNNWGFPRPKRLNFKLFNIQVKEVTDNNGVKTIANNLTSTVQVFTDSYQLPYVLGS	358
AAV8	QRLINNNWGFPRKRLSFKLFNIQVKEVTQNEGTKTIANNLTSTIQVFTDSEYQLPYVLGS	359
AAVrh74	QRLINNNWGFPRPKRLNFKLFNIQVKEVTQNEGTKTIANNLTSTIQVFTDSEYQLPYVLGS	359

FIG. 2A

SUBSTITUTE SHEET (RULE 26)

AAV5	GTEGCLPAFPFPQVFTLPQYGYATLNRDNTENPTERSFFCLEYFPSKMLRTGNNFEFTYN	407
AAV2	AHQGCLPPFPADVFMVPQYGYLTLLNG--SQAVGRSSFYCLEYFPSQMLRTGNNFTFSYT	414
AAV9	AHEGCLPPFPADVFMIPQYGYLTLLNDG--SQAVGRSSFYCLEYFPSQMLRTGNNFQFSYE	416
AAV8	AHQGCLPPFPADVFMIPQYGYLTLLNG--SQAVGRSSFYCLEYFPSQMLRTGNNFQFTYT	417
AAVrh74	AHQGCLPPFPADVFMIPQYGYLTLLNG--SQAVGRSSFYCLEYFPSQMLRTGNNFEFSYN	417
AAV5	FEEVPFHSSFAPSQNLFLKLANPLVDQYLYRFVSTNNTGGVQ-----FNKNLAGRYANTY	461
AAV2	FEDVPFHSSYAHSQSLDRLMNPLIDQYLYYLSRTNTPSGTTQSRLQFSQAGASDIRDQS	474
AAV9	FENVPFHSSYAHSQSLDRLMNPLIDQYLYYLSKTIN-GSGQNQOTLKFSVAGPSNMAVQG	475
AAV8	FEDVPFHSSYAHSQSLDRLMNPLIDQYLYYLSRTQTGGTANTQTLGFSQGGPNTMANQA	477
AAVrh74	FEDVPFHSSYAHSQSLDRLMNPLIDQYLYYLSRTQSTGGTAGTQQLLFSQAGPNNMSAQAA	477
AAV5	KNWFPGPMGRTQGWNLGSGVNRASVSATTNRMELEGASYQVPPQPNGMTNNLQGSNTY	521
AAV2	RNWLPGPCYRQQRVSKTSADNNNSEYSWTGATKYHLNGRDSLVNPGPAMASHKDDEEKFF	534
AAV9	RNYLPGPSYRQQRVSTTVTQNNNSEFAWPGASSWALNGRNSLMNPGPAMASHKEGEDRFF	535
AAV8	KNWLPGPCYRQQRVSTTTGQNNNSNFAWTAGTKYHLNGRNSLANPGIAMATHKDDEERFF	537
AAVrh74	KNWLPGPCYRQQRVSTTLSQNNNSNFAWTGATKYHLNGRDSLVNPGVAMATHKDDEERFF	537
AAV5	ALENTMIENSQPANPGTTATYLEGNMLITSESETQPVNRVAYNVGGQMATNNQSSTTAPA	581
AAV2	PQSGVLIFGKQGSEKTN---VDIEKVMITDEEEIRTTNPVATEQYGSVSTNLQRGNRQAA	591
AAV9	PLSGSLIFGKQGTGRDN---VDADKVMITNEEEIKTTNPVATESYQVATNHQSAQAQAQ	592
AAV8	PSNGILIFGKQNAARDN---ADYSDVMLTSEEEIKTTNPVATEEYGVADNLQQQNTAPO	594
AAVrh74	PSSGVLMPGKQGACKDN---VDYSSVMLTSEEEIKTTNPVATEQYGVVADNLQQQNAAPI	594

FIG. 2B

AAV5	<u>TGTYNLQEIVPGSVWMERDVYLQGPIWAKIPETGAHFHPSAMGGFGLKHPPPMMLIKNT</u>	641
AAV2	<u>TADVNTQGVLPGMVWQDRDVYLQGPIWAKIPHTDGHFHPSPLMGGFGLKHPPPQILIKNT</u>	651
AAV9	<u>TGWVQNQGILPGMVWQDRDVYLQGPIWAKIPHTDGNFHPSPLMGGFGMKHPPPQILIKNT</u>	652
AAV8	<u>TGTVNSQGALPGMVWQNRDVYLQGPIWAKIPHTDGNFHPSPLMGGFGLKHPPPQILIKNT</u>	654
AAVrh74	<u>VGAVNSQGALPGMVWQNRDVYLQGPIWAKIPHTDGNFHPSPLMGGFGLKHPPPQILIKNT</u>	654
AAV5	<u>PVPGNI-TSFSDPVSSFITQYSTGQVTVEMEWELKKENSKRWNPEIQYTNNYNDPQFVD</u>	700
AAV2	<u>PVPANPSTTFSAAKFASFITQYSTGQVSVEIEWELQKENS KRWNPEIQYTSNYNKSVNVD</u>	711
AAV9	<u>PVPADPPTAFNKDKLNSFITQYSTGQVSVEIEWELQKENS KRWNPEIQYTSNYYKSNNVE</u>	712
AAV8	<u>PVPADPPTTFNQSKLNSFITQYSTGQVSVEIEWELQKENS KRWNPEIQYTSNYYKSTSVD</u>	714
AAVrh74	<u>PVPADPPTTFNQAKLASFITQYSTGQVSVEIEWELQKENS KRWNPEIQYTSNYYKSTNVD</u>	714
AAV5	<u>FAPDSTGEYRTTRPIGTRYLTRPL</u>	724
AAV2	<u>FTVDTNGVYSEPRPIGTRYLTRNL</u>	735
AAV9	<u>FAVNTEGVYSEPRPIGTRYLTRNL</u>	736
AAV8	<u>FAVNTEGVYSEPRPIGTRYLTRNL</u>	738
AAVrh74	<u>FAVNTEGTYSEPRPIGTRYLTRNL</u>	738

FIG. 2C

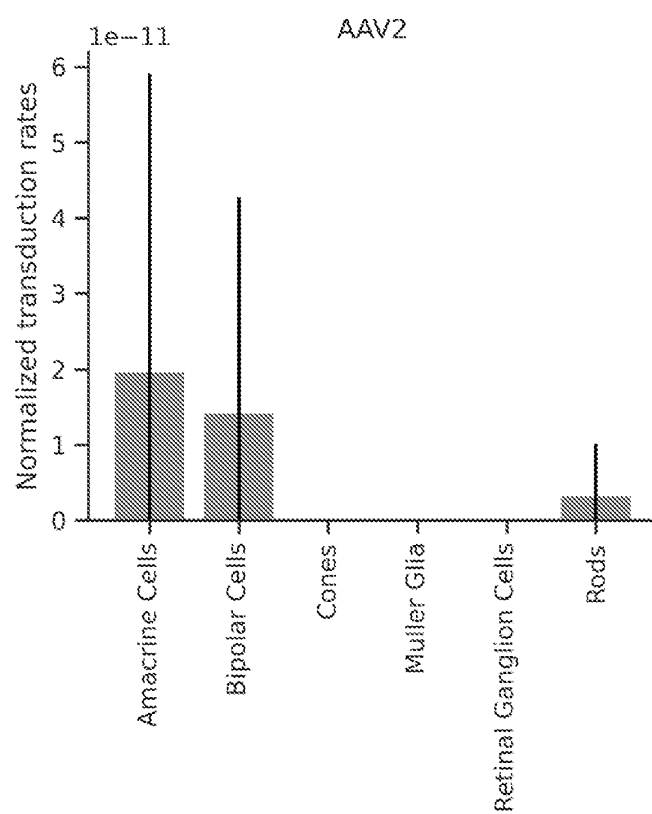


FIG. 3A

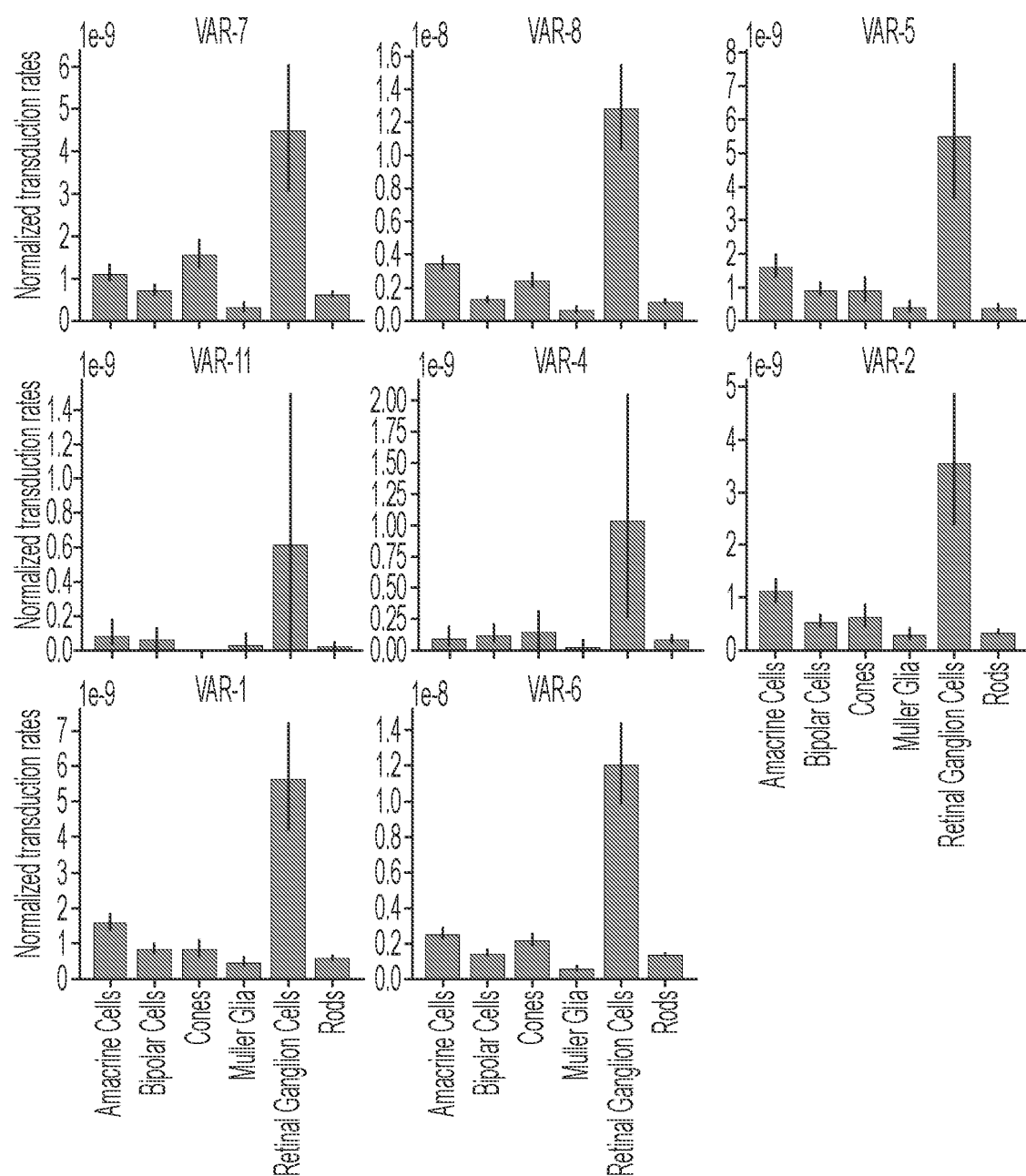


FIG. 3B

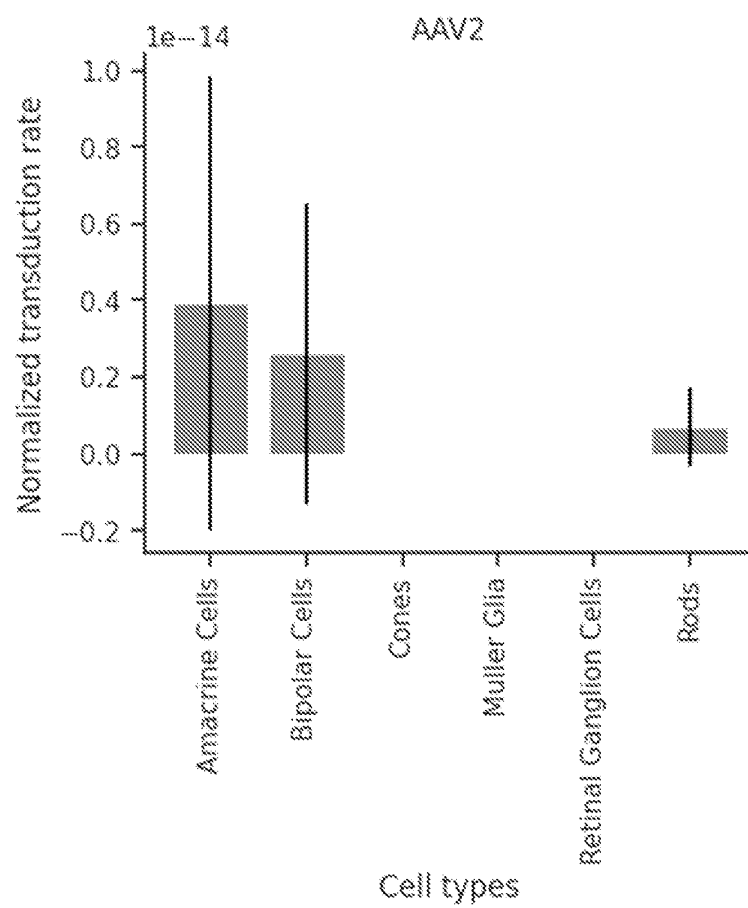


FIG. 4A

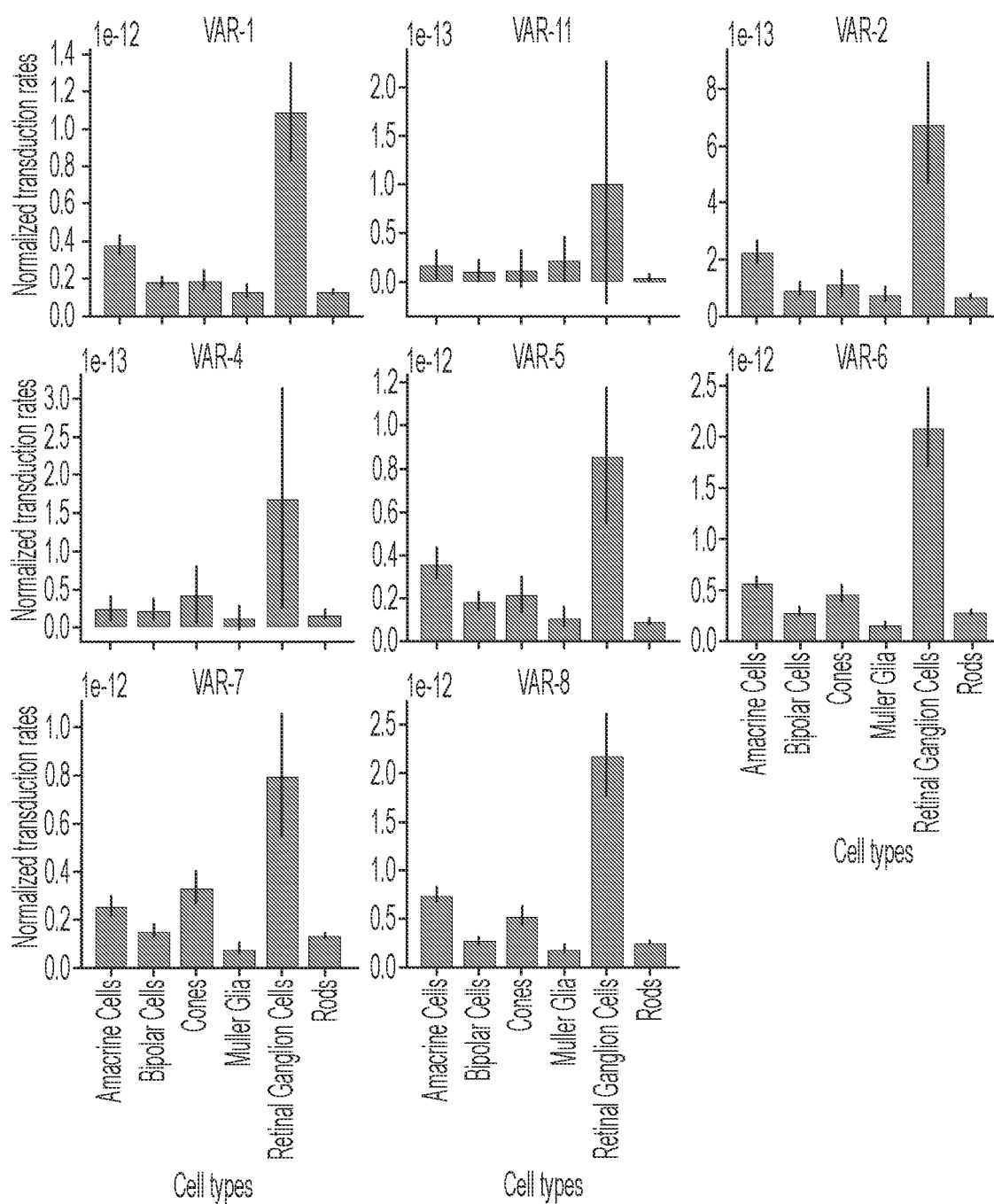


FIG. 4B

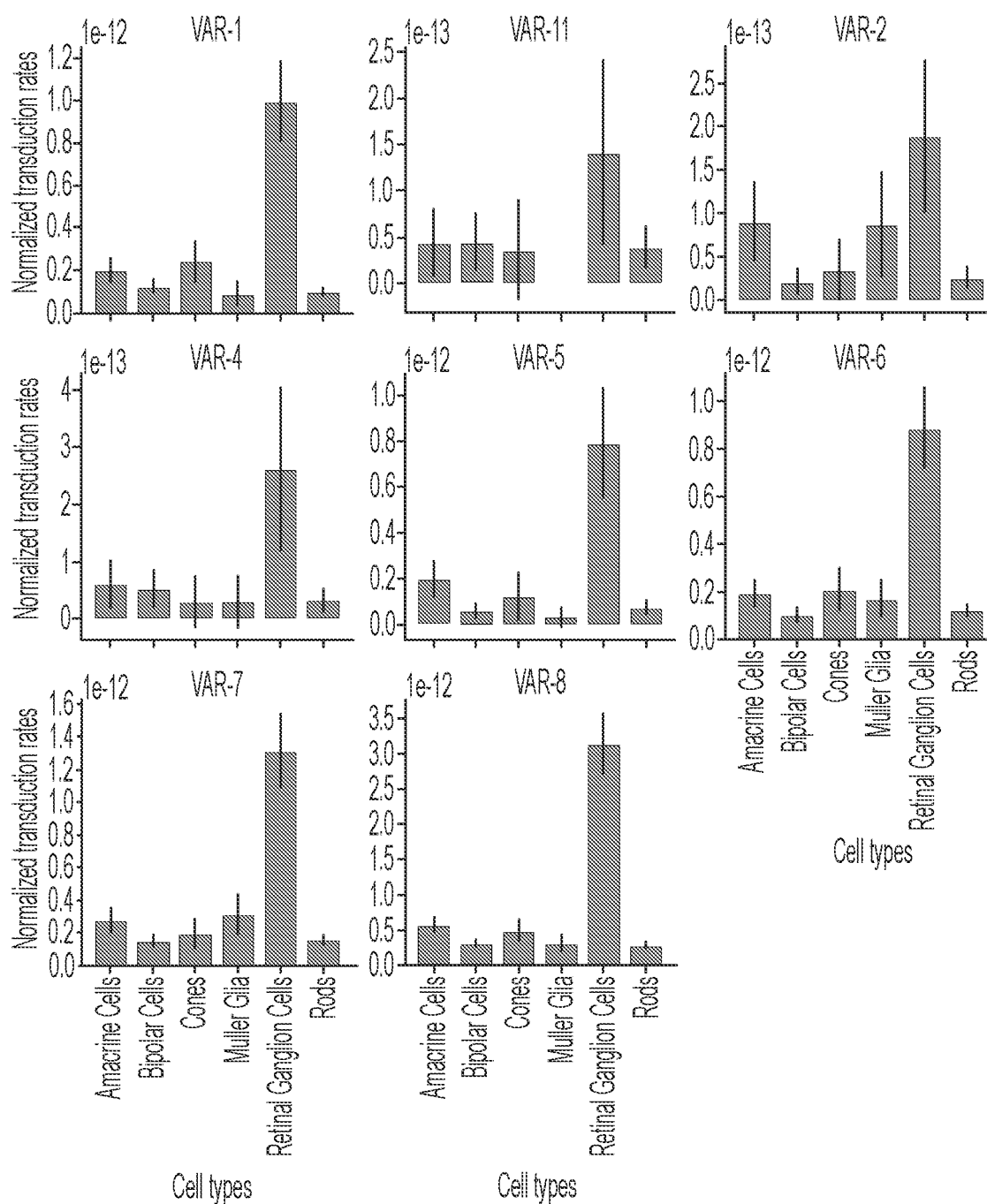


FIG. 5

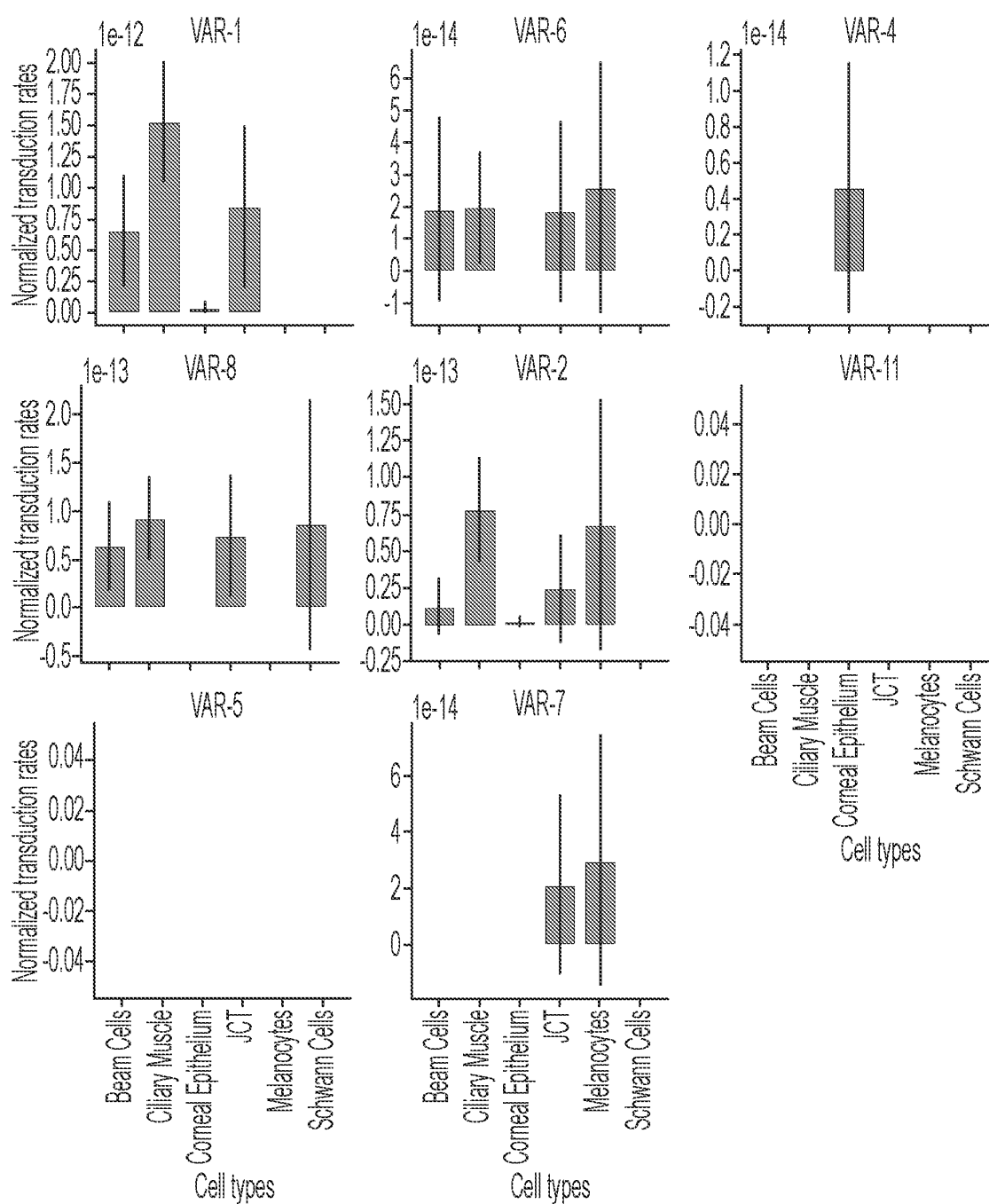


FIG. 6

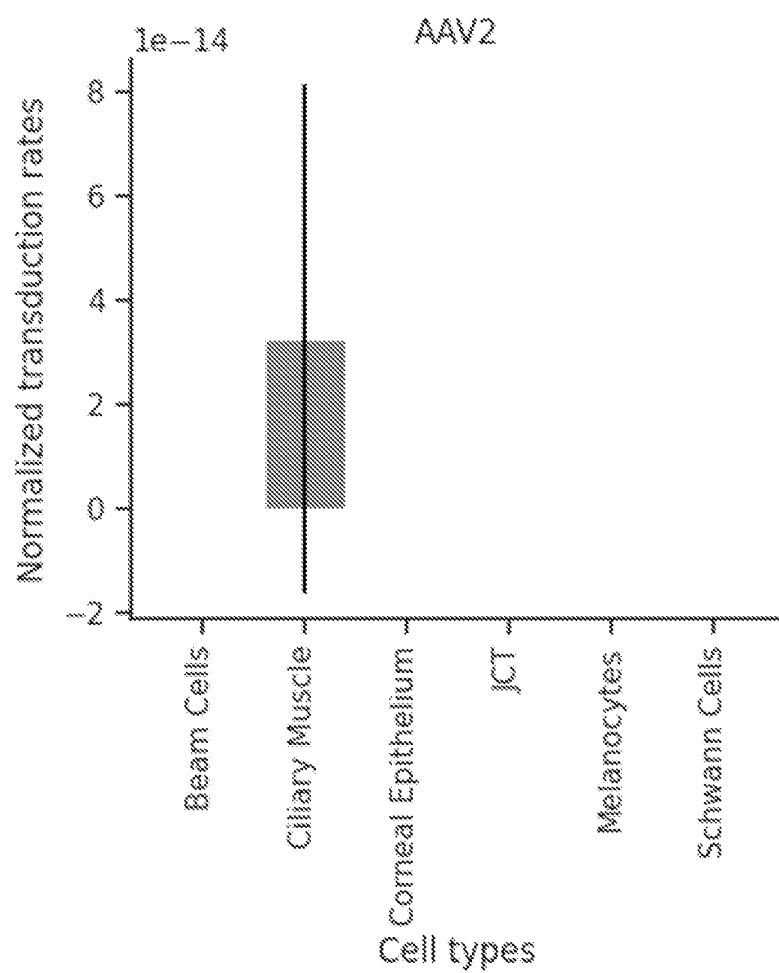
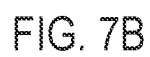


FIG. 7A



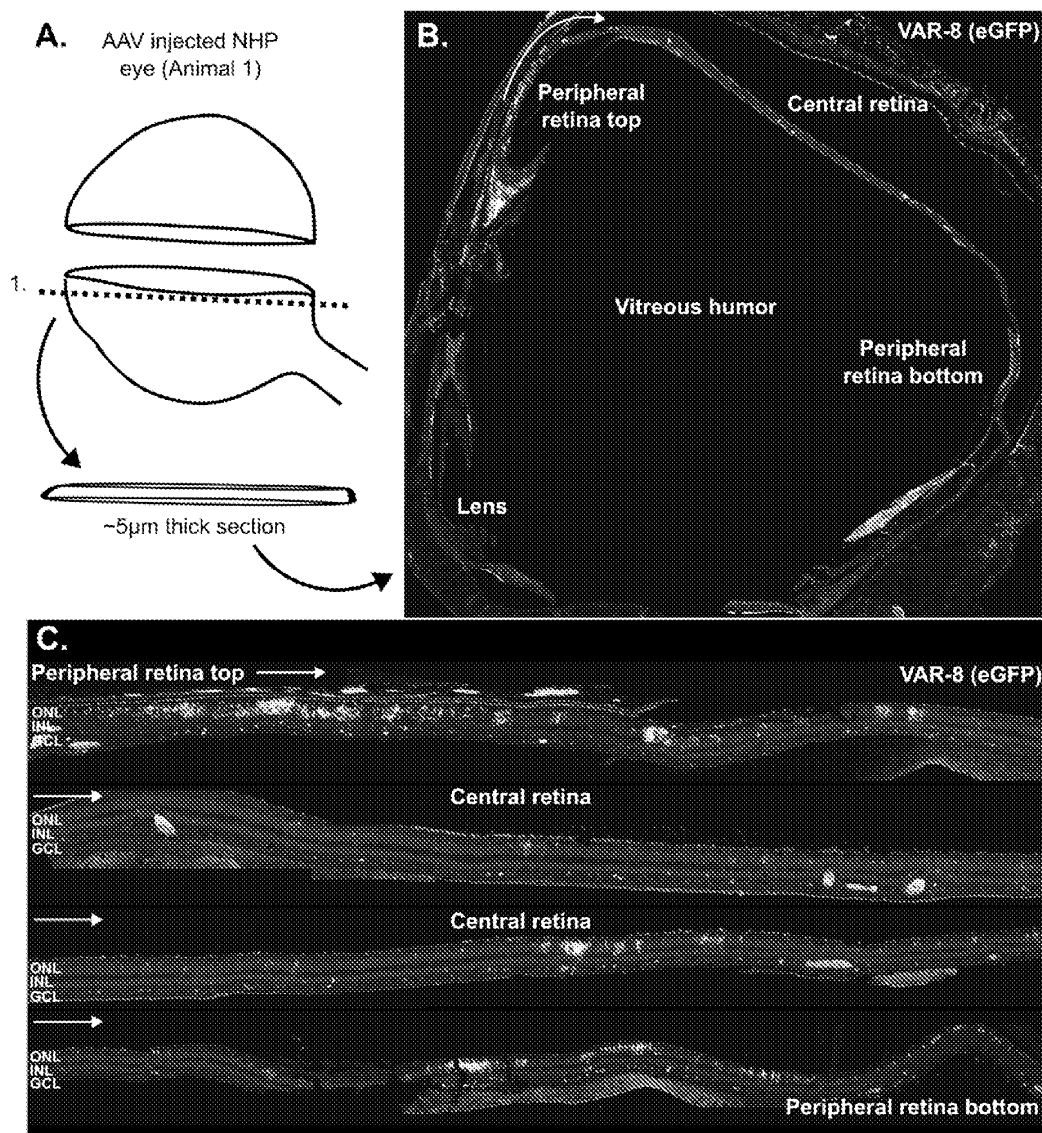


FIG. 8

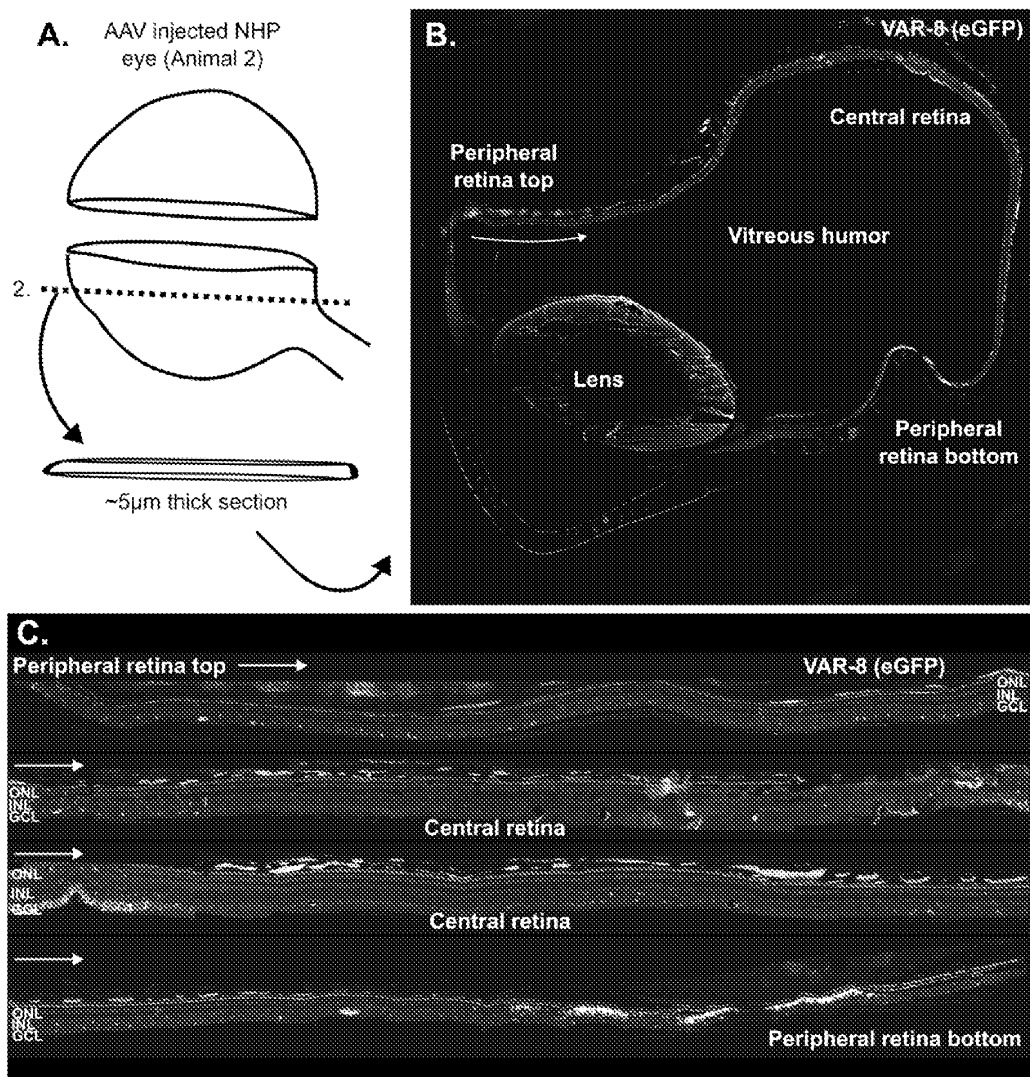


FIG. 9