

AAV5	MSFVDHFPDWLEE-VGEGLREFLGLLEAGPPKPKPNQQHQDQARGVLVLPGYNYLGPNGLD	59
AAV2	MAADGYLPDWLEDTLSEGIQWWKLKPGPPPKPAERHKDDSRGLVLPGYKYLGPFGNLD	60
AAV9	MAADGYLPDWLEDNLSEGIREWALKPGAPQPKANQQHQDNARGVLVLPGYKYLGPNGLD	60
AAV8	MAADGYLPDWLEDNLSEGIREWALKPGAPKPKANQQKQDDGRGLVLPGYKYLGPFGNLD	60
AAVrh74	MAADGYLPDWLEDNLSEGIREWDLKPGAPKPKANQQKQDNGRGLVLPGYKYLGPFGNLD	60
AAV5	RGEPVNRADDEVAREHDISYNEQLEAGDNPYLKYNHADADEFQEKLADDTSFGGNLGKAVFQ	119
AAV2	KGEPVNEADAAALEHDKAYDRQLDSGDNPYLKYNHADADEFQERLKEDTSFGGNLGRAVFQ	120
AAV9	KGEPVNAADAAALEHDKAYDQQLKAGDNPYLKYNHADADEFQERLKEDTSFGGNLGRAVFQ	120
AAV8	KGEPVNAADAAALEHDKAYDQQLQAGDNPYLRYNHADADEFQERLQEDTSFGGNLGRAVFQ	120
AAVrh74	KGEPVNAADAAALEHDKAYDQQLQAGDNPYLRYNHADADEFQERLQEDTSFGGNLGRAVFQ	120
AAV5	AKKRVLEPFGLVEEGAKTAPT'GKRIDDHFPKRKKARTEEDSK----PS-----TSSDA	168
AAV2	AKKRVLEPLGLVEEPPVKTAPGKKRPVEHSPV-EPDSSSGTGKAGQQPARKRLNFGQTGDA	179
AAV9	AKKRLLEPLGLVEEAAKTAPGKKRPVEQSPQ-EPDSSAGIGKSGAQPAKKRLNFGQTGDT	179
AAV8	AKKRVLEPLGLVEEGAKTAPGKKRPVEPSPQRSFDSSTGIGKKGQQPARKRLNFGQTGDS	180
AAVrh74	AKKRVLEPLGLVESPVKTAPGKKRPVEPSPQRSFDSSTGIGKKGQQPAKKRLNFGQTGDS	180
AAV5	<u>EAGPSGSQQQLQIPAPASSLGADTMSAGGGGPLGDNNQGADGVGNASGDWHCDSTWMGDR</u>	228
AAV2	<u>DS--VPDPQPLGQPPAAPSGLGTTNTMATGSGAPMADNNEGADGVGNSSGNWHCDSTWMGDR</u>	238
AAV9	<u>ES--VPDPQPIGEPPAAPSGVGSILTMASGGGAPVADNNEGADGVGSSSGNWHCDSTWLGR</u>	238
AAV8	<u>ES--VPDPQPLGEPPAAPSGVGPNTMAAGGGAPMADNNEGADGVGSSSGNWHCDSTWLGR</u>	239
AAVrh74	<u>ES--VPDPQPIGEPPAGPSGLGSGTMAAGGGAPMADNNEGADGVGSSSGNWHCDSTWLGR</u>	239
AAV5	<u>VVTKSTRTWVLPSPYNNHQYREIKSGSVDG-SNANAYFGYSTPWGYFDFNRFHSHWSPRDW</u>	287
AAV2	<u>VITTSTRTWALPTYNNHLYKQISS--QSGASNDNHYFGYSTPWGYFDFNRFHCHFSPRDW</u>	296
AAV9	<u>VITTSTRTWALPTYNNHLYKQISNSTSGGSSNDNAYFGYSTPWGYFDFNRFHCHFSPRDW</u>	298
AAV8	<u>VITTSTRTWALPTYNNHLYKQISNGTSGGATNDNTYFGYSTPWGYFDFNRFHCHFSPRDW</u>	299
AAVrh74	<u>VITTSTRTWALPTYNNHLYKQISNGTSGGSTNDNTYFGYSTPWGYFDFNRFHCHFSPRDW</u>	299
AAV5	<u>QRLINNYWGFPRPSLRVKIFNIQVKEVTQDSTTTIANNLSTVQVFTDDDYQLPYVGN</u>	347
AAV2	<u>QRLINNNWGFPRPKRLNFKLENIQVKEVTQNDGTTTIANNLSTVQVFTDSEYQLPYVLGS</u>	356
AAV9	<u>QRLINNNWGFPRPKRLNFKLENIQVKEVTDNNGVKTIANNLSTVQVFTDSDYQLPYVLGS</u>	358
AAV8	<u>QRLINNNWGFPRPKRLSEKLENIQVKEVTQNEGKTIANNLSTIQVFTDSEYQLPYVLGS</u>	359
AAVrh74	<u>QRLINNNWGFPRPKRLNFKLENIQVKEVTQNEGKTIANNLSTIQVFTDSEYQLPYVLGS</u>	359

FIG. 1A

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AAV5	<u>GTEGCLPAFPQVFTLPQYGYATLNRDNTENPTERSSEFCLEYFPSKMLRTGNNFEFTYN</u>	407
AAV2	<u>AHQGCLPPFPADVFMIPQYGYLTLNNG--SQAVGRSSFYCLEYFPSQMLRTGNNFTFSYT</u>	414
AAV9	<u>AHEGCLPPFPADVFMIPQYGYLTLNDG--SQAVGRSSFYCLEYFPSQMLRTGNNFQFSYE</u>	416
AAV8	<u>AHQGCLPPFPADVFMIPQYGYLTLNNG--SQAVGRSSFYCLEYFPSQMLRTGNNFQFTYT</u>	417
AAVrh74	<u>AHQGCLPPFPADVFMIPQYGYLTLNNG--SQAVGRSSFYCLEYFPSQMLRTGNNFEFSYN</u>	417
AAV5	<u>FEEVPFHSSSFAPSQNLFLKLANPLVDQYLYRFVSTNNTGGVQ-----FNKNLAGRYANTY</u>	461
AAV2	<u>FEDVPFHSSYAHSQSLDRLMNPLIDQYLYLSRTNTPSGTTTQSRLOFSQAGASDIRDQS</u>	474
AAV9	<u>FENVPFHSSYAHSQSLDRLMNPLIDQYLYLSKTIN-GSGQNQOTLKFSVAGPSNMAVQG</u>	475
AAV8	<u>FEDVPFHSSYAHSQSLDRLMNPLIDQYLYLSRTQTGGTANTQTLGFSQGGPNTMANQA</u>	477
AAVrh74	<u>FEDVPFHSSYAHSQSLDRLMNPLIDQYLYLSRTQSTGGTAGTQQLLFSQAGPNNMSAQA</u>	477
AAV5	<u>KNWFPGPMGRTQGWNLGSGVNRASVSATFATNRMELEGASYQVPPQPNGMTNNLQGSNTY</u>	521
AAV2	<u>RNWLPGPCYRQQRVSKTSADNNNSEYSWTGATKYHLNGRDSLNVNPGPAMASHKDDEEKFF</u>	534
AAV9	<u>RNYIPGPSYRQQRVSTTVTQNNNSEFAWPGASSWALNGRNSLMNPGPAMASHKEGEDRFF</u>	535
AAV8	<u>KNWLPGPCYRQQRVSTTTGQNNNSNFAWTAGTKYHLNGRNSLANPGIAMATHKDDEERFF</u>	537
AAVrh74	<u>KNWLPGPCYRQQRVSTTLSQNNNSNFAWTGATKYHLNGRDSLNVNPGVAMATHKDDEERFF</u>	537
AAV5	<u>ALENTMIFNSQPANPGTTATYLEGNMLITSESETQPVNVRVAYNVGGQMATNNQSSTTAPA</u>	581
AAV2	<u>PQSGVLIIFGKQGSEKTN---VDIEKVMITDEEEIRTTPNVATEQYGSVSTNLQRGNRQAA</u>	591
AAV9	<u>PLSGSLIFGKQGTGRDN---VDADKVMITNEEEIKTTNPVATESYGGQVATNHQSAQAAQ</u>	592
AAV8	<u>PSNGILIFGKQNAARDN---ADYSDVMLTSEEEIKTTNPVATEEYGI VADNLQQONTAPQ</u>	594
AAVrh74	<u>PSSGVLMEFGKQGAGKDN---VDYSSVMLTSEEEIKTTNPVATEQYGVVADNLQQQNAAPI</u>	594

FIG. 1B

AAV5	<u>TGTYNLQEIVPGSVWMERDVYLQGGPIWAKIPETGAHFHPSAMGGFGLKHPPPMMLIKNT</u>	641
AAV2	<u>TADVNTQGVLPGMVWQDRDVYLQGGPIWAKIPHTDGHFHPSPLMGGFGLKHPPFQILIKNT</u>	651
AAV9	<u>TGWWQNGILPGMVWQDRDVYLQGGPIWAKIPHTDGNFHPSPLMGGFGMKHPPFQILIKNT</u>	652
AAV8	<u>IGTVNSQGGALPGMVWQNRDVYLQGGPIWAKIPHTDGNFHPSPLMGGFGLKHPPFQILIKNT</u>	654
AAVrh74	<u>VGAVNSQGGALPGMVWQNRDVYLQGGPIWAKIPHTDGNFHPSPLMGGFGLKHPPFQILIKNT</u>	654
AAV5	<u>PVPGNI-TSFSQVPSVSSFITQYSTGQVTVEWELKKENSKRWNPEIQYTNNYNDPQFVD</u>	700
AAV2	<u>PVPANPSTTFSAAKFASFITQYSTGQVSVEIEWELQKENS KRWNPEIQYTSNYSNVND</u>	711
AAV9	<u>PVPADPPTAFNKKLNSFITQYSTGQVSVEIEWELQKENS KRWNPEIQYTSNYSNNVE</u>	712
AAV8	<u>PVPADPPTTFNQSKLNSFITQYSTGQVSVEIEWELQKENS KRWNPEIQYTSNYSKTSVD</u>	714
AAVrh74	<u>PVPADPPTTFNQAKLASFITQYSTGQVSVEIEWELQKENS KRWNPEIQYTSNYSKSTNVD</u>	714
AAV5	<u>FAPDSTGEYRTTRPIGTRYLTRPL</u>	724
AAV2	<u>FTVDTNGVYSEPRPIGTRYLTRNL</u>	735
AAV9	<u>FAVNTGCVYSEPRPIGTRYLTRNL</u>	736
AAV8	<u>FAVNTGCVYSEPRPIGTRYLTRNL</u>	738
AAVrh74	<u>FAVNTGTYSEPRPIGTRYLTRNL</u>	738

FIG. 1C

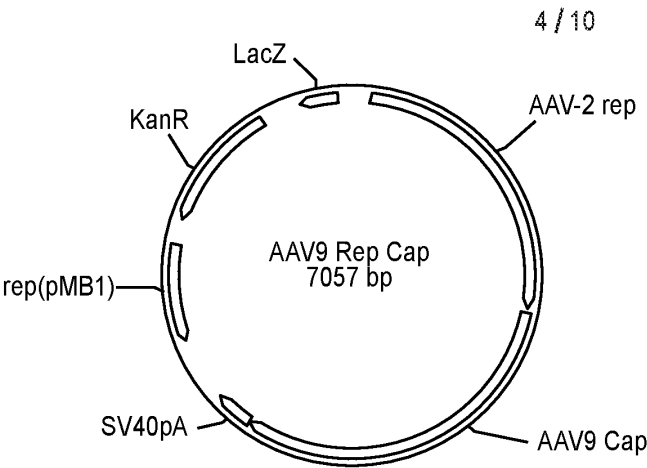


FIG. 2A

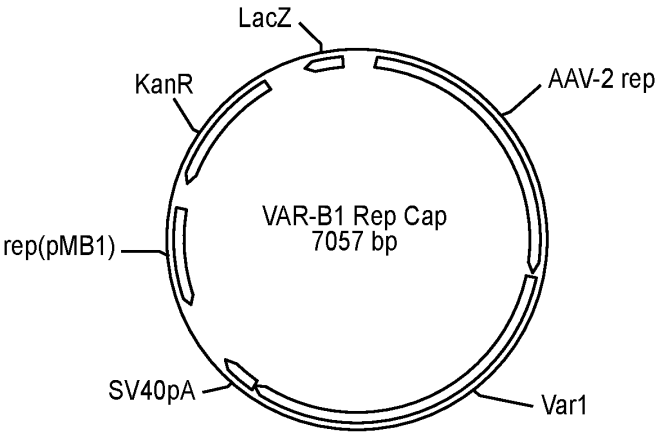


FIG. 2B

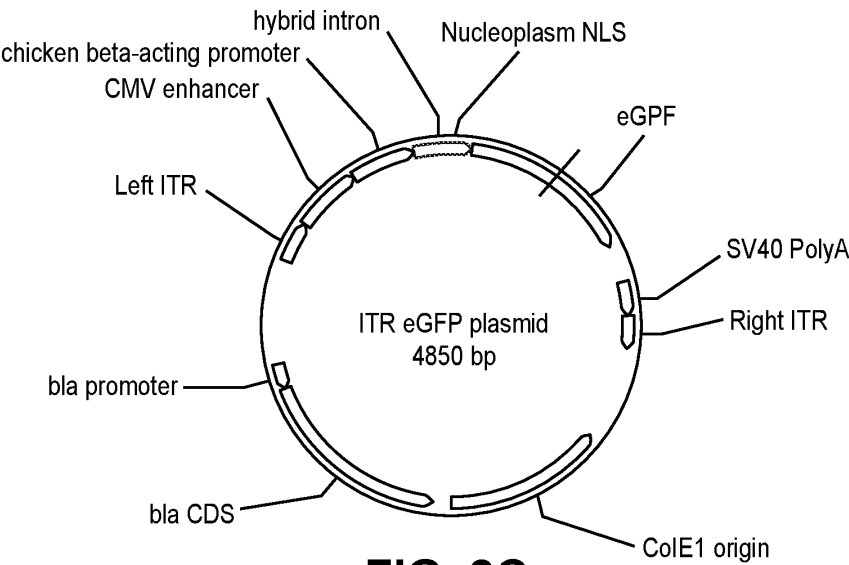


FIG. 2C

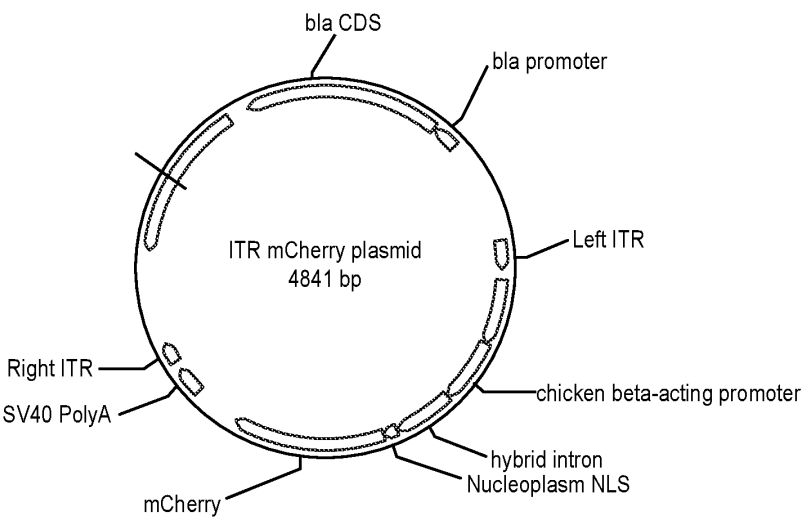


FIG. 2D

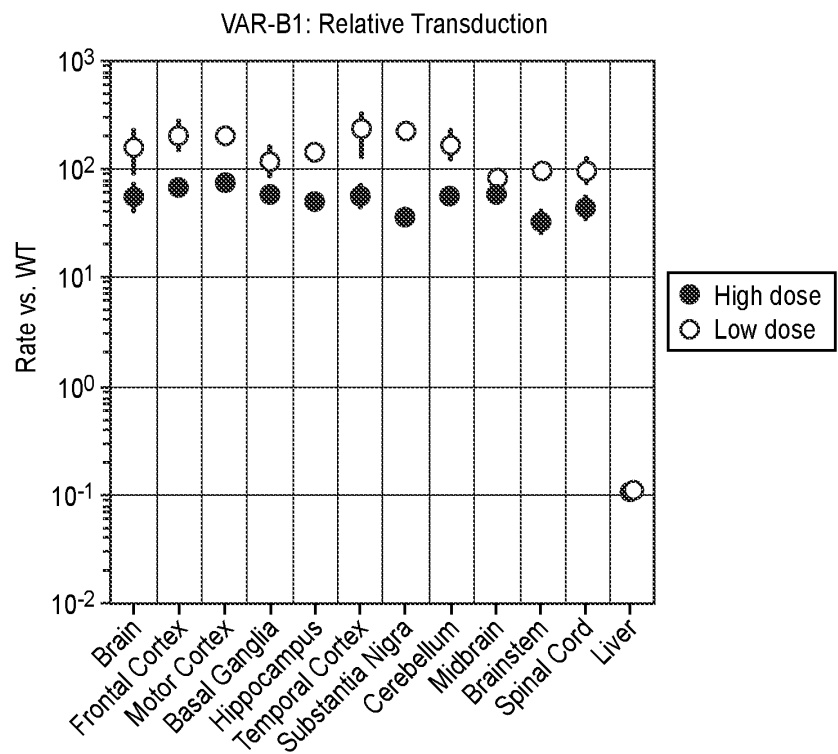


FIG. 3A

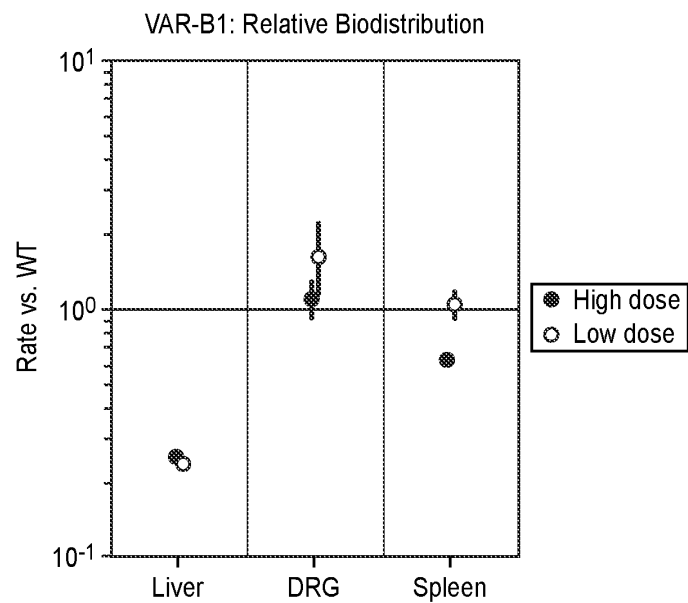


FIG. 3B

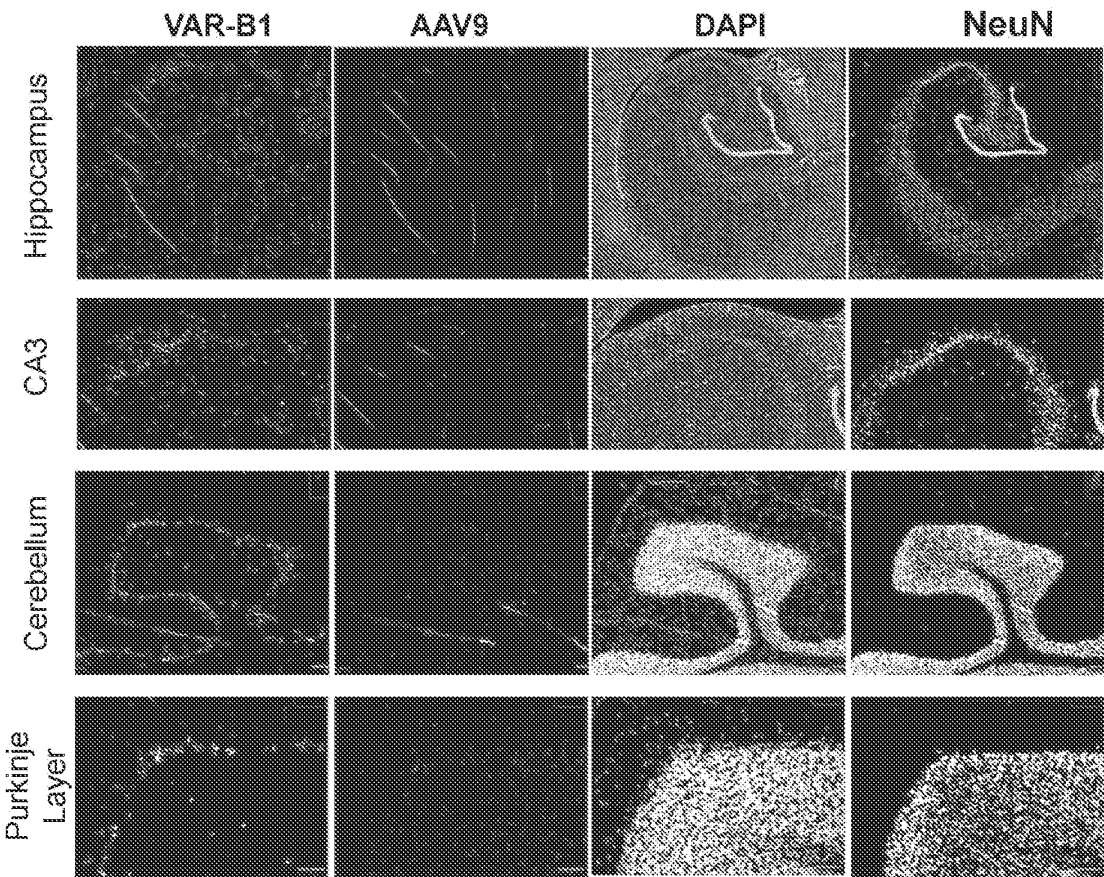


FIG. 4A

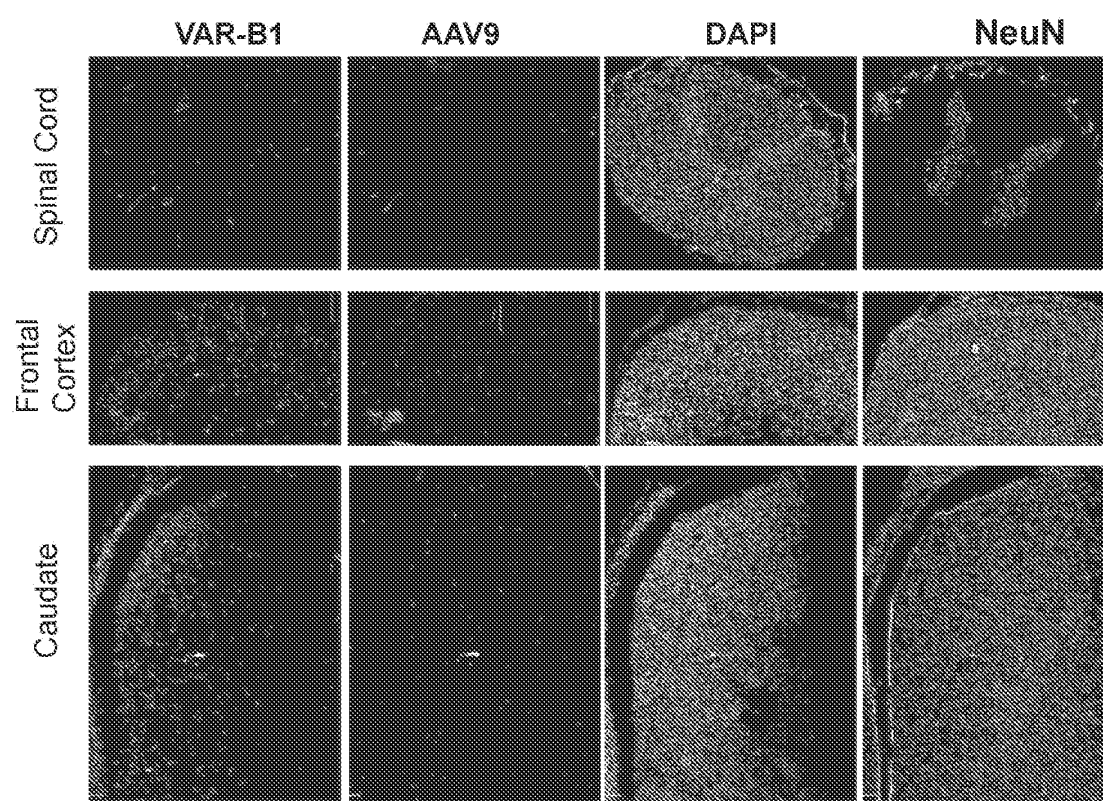


FIG. 4B

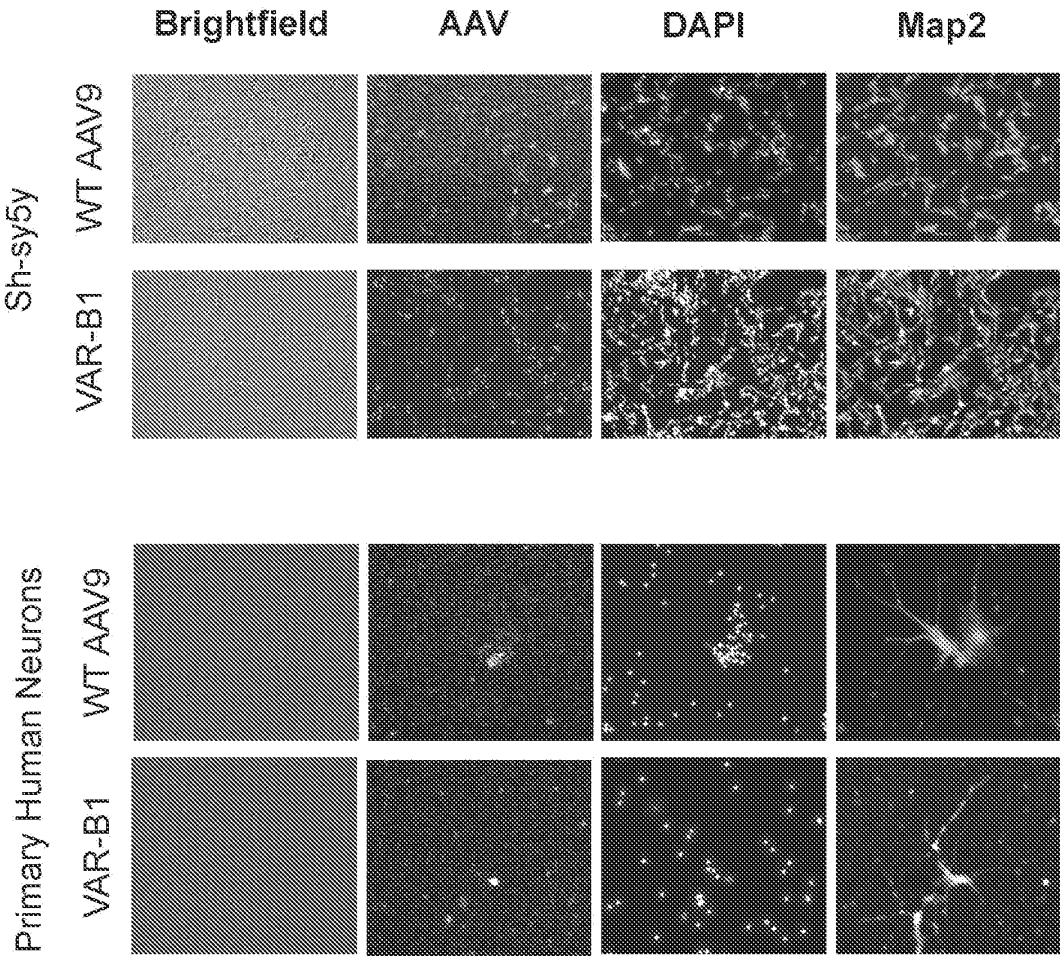


FIG. 5

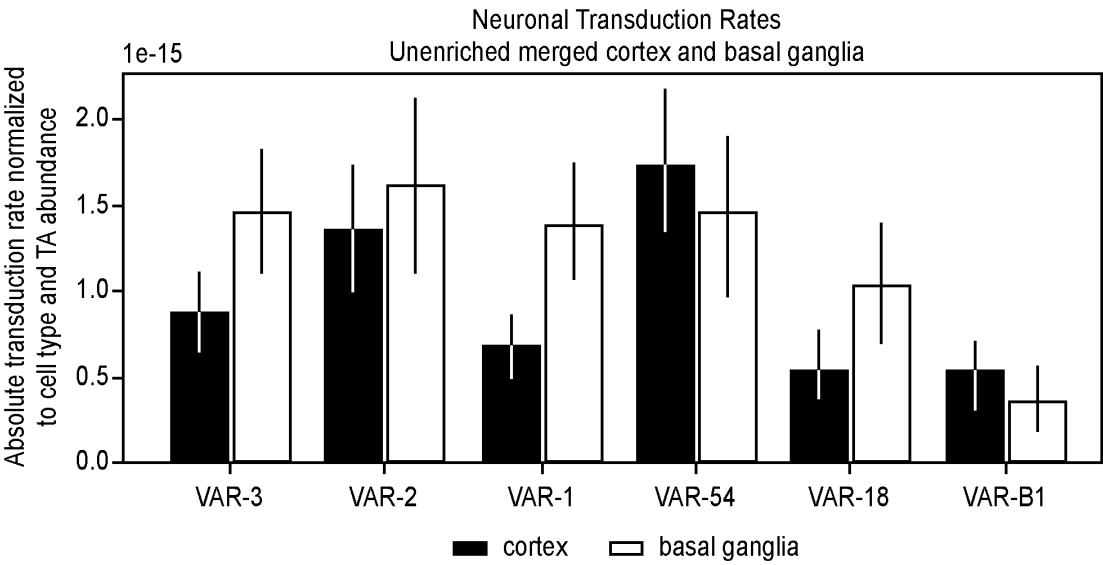


FIG. 6