

AAV5	MSFVDHPPDWLEE-VGEGREFLGLGAGPPKPKPNQOQHQQDQARGLVLPGYNLGPGNGLD	59
AAV2	MAADGYLPDWLEDTLSEGIRQWKKLKPGPPPKPAERHKDDSRGLVLPGYKYLGPFNGLD	60
AAV9	MAADGYLPDWLEDNLSEGIREWALKPGAPQPKANQQOQHDNARGLVLPGYKYLGPFNGLD	60
AAV8	MAADGYLPDWLEDNLSEGIREWALKPGAPKPKANQQKQDDGRGLVLPGYKYLGPFNGLD	60
AAVrh74	MAADGYLPDWLEDNLSEGIREWWDLKPGAPKPKANQQKQDNNGRGLVLPGYKYLGPFNGLD	60
AAV5	RGEFVNRADEVAREHDI SYNEQLEAGDNPYLYKNHADAEFQEKLADDTSFGGNLGKAVFQ	119
AAV2	KGEFVNEADAAALEHDKAYDRQLDSGDNPYLYKNHADAEFQERLKEDTSFGGNLGRAVFQ	120
AAV9	KGEFVNAADAAALEHDKAYDQQLKAGDNPYLYKNHADAEFQERLKEDTSFGGNLGRAVFQ	120
AAV8	KGEFVNAADAAALEHDKAYDQQLQAGDNPYLYKNHADAEFQERLQEDTSFGGNLGRAVFQ	120
AAVrh74	KGEFVNAADAAALEHDKAYDQQLQAGDNPYLYKNHADAEFQERLQEDTSFGGNLGRAVFQ	120
AAV5	AKKRVLEPFGLVEEGAKTAPTGKRIDDHFPKRRKKARTEEDSK-----PS-----TSSDA	168
AAV2	AKKRVLEPLGLVEEPVKTPCKKRPPVEHSPV-EPDSSSGTGKAGQQPARKRLNFGQTGDA	179
AAV9	AKKRLLEPLGLVEEAAKTAPCKKRPPVEQSPQ-EPDSSAGIGKSGAQPAKRLNFGQTGDT	179
AAV8	AKKRVLEPLGLVEEGAKTAPCKKRPPVEPSPQSPDSSSTGIGKKGQQPARKRLNFGQTGDS	180
AAVrh74	AKKRVLEPLGLVESPVKTPCKKRPPVEPSPQSPDSSSTGIGKKGQQPARKRLNFGQTGDS	180
AAV5	EAGPSGSQQLQIPAQPASSILGADTMSAGGGGPELGDNNQADGVGNASGDWHCDSTWMGDR	228
AAV2	DS-VFDPQPLGQPPAAPSGGLGTNTMATSGAPMADNNEGADGVGNSSGNWHCDSTWMGDR	238
AAV9	ES-VFDPQPIGEPPAAPSGVGSLSLTMASGGGAPVADNNEGADGVGSSSGNWHCDSQWLGR	238
AAV8	ES-VFDPQPLGEPPAAPSGVGPNTMAAGGGAPMADNNEGADGVGSSSGNWHCDSTWLGR	239
AAVrh74	ES-VFDPQPIGEPPAGPSGLSGGTMAAGGGAPMADNNEGADGVGSSSGNWHCDSTWLGR	239
AAV5	VVTKSTRTWVLPESYNNHQYREIKSGSVDG-SNANAYFGYSTPWGYFDENRFHSHWSPRDW	287
AAV2	VITTSTRTWALPTYNNHLYKQISS--QSGASNDNHYFGYSTPWGYFDENRFHCHFSPRDW	296
AAV9	VITTSTRTWALPTYNNHLYKQISNSTSGGSNDNAYFGYSTPWGYFDENRFHCHFSPRDW	298
AAV8	VITTSTRTWALPTYNNHLYKQISNGTSGGATNDNTYFGYSTPWGYFDENRFHCHFSPRDW	299
AAVrh74	VITTSTRTWALPTYNNHLYKQISNGTSGGSTNDNTYFGYSTPWGYFDENRFHCHFSPRDW	299
AAV5	QRLINNYWGERPRSLRVKIENIQVKEVTQVDS TTIANNLSTVQVFTDDDYQLFYVVG	347
AAV2	QRLINNNWGERPKRLNFKLENIQVKEVTQNDGTTIANNLSTVQVFTDSEYQLFYVLGS	356
AAV9	QRLINNNWGERPKRLNFKLENIQVKEVTDNNGVKTIANNLSTVQVFTDSDYQLFYVLGS	358
AAV8	QRLINNNWGERPKRLSEKLENIQVKEVTQNEGTKTIANNLSTIQVFTDSEYQLFYVLGS	359
AAVrh74	QRLINNNWGERPKRLNFKLENIQVKEVTQNEGTKTIANNLSTIQVFTDSEYQLFYVLGS	359

FIG. 1A

AAV5	GTEGCLPAFFPPQVFTLLPQYGYATLNRDNTENPTERSFFCLEYFPPSKMLRTGNNFEFTYN	407
AAV2	AHQGCLPPFPADVEMVPQYGYLTLLNG--SQAVGRSSFCYCLEYFPPSQMLRTGNNFTFSYT	414
AAV9	AHEGCLPPFPADVEMIPQYGYLTLLNDG--SQAVGRSSFCYCLEYFPPSQMLRTGNNFQFSYE	416
AAV8	AHQGCLPPFPADVEMIPQYGYLTLLNG--SQAVGRSSFCYCLEYFPPSQMLRTGNNFQFTYT	417
AAVrh74	AHQGCLPPFPADVEMIPQYGYLTLLNG--SQAVGRSSFCYCLEYFPPSQMLRTGNNFEFSYN	417
AAV5	FEVVFHSSFPAPSONLFKLANPLVDQYLYRFPVSTNNTGGVQ-----FNKNLAGRYANTY	461
AAV2	FEDVVFHSSYAHSQSLDRIMNPLIDQYLYLSKTNTPSGTTTQSRLLQFSQAGASDIRDQS	474
AAV9	FENVVFHSSYAHSQSLDRIMNPLIDQYLYLSKTN--GSGQNQQTLKFSVAGPSNNMAVQG	475
AAV8	FEDVVFHSSYAHSQSLDRIMNPLIDQYLYLSKTFQTTGGTANTQTLGFSQGGPNTMANQA	477
AAVrh74	FEDVVFHSSYAHSQSLDRIMNPLIDQYLYLSKTFQSTGGTAGTQQLLFSQAGPNNMSAQA	477
AAV5	KNWFPGPMGRTOGWNLGSGVNRASVSATNRMELLEGASYQVPPQPNMGMTNNLQGSNTY	521
AAV2	RNWLPGPCYRQQRVSKTSADNNNSEYSWTGATKYHLNGRDSLVPFGPAMASHKDDDEKFF	534
AAV9	RNYIPGPSYRQQRVSTTTVTQNNNSEFAWPGASSWALNGRNSLMNPGPAMASHKEGEDRFF	535
AAV8	KNWLPGPCYRQQRVSTTTTGQNNNSNFAWTAGTKYHLNGRNSLANPGIAMATHKDDDEERFF	537
AAVrh74	KNWLPGPCYRQQRVSTTTLSQNNNSNFAWTGATKYHLNGRDSLVPFGVAMATHKDDDEERFF	537
AAV5	ALENTMIFNSQPANPGTTATYLEGNMLITSESETQPVNRVAYNVGGQMATNNQSSTTAPA	581
AAV2	PQSGVLI FGKQGSEKTN----VDIEKVMITDEEERTTNPVATEQYGSVSTNLQRGNRQAA	591
AAV9	RLSGSLIFGKQGTGRDN----VDADKVMITNEEEIKTTNPVATESYGVATNHQSAQAQAQ	592
AAV8	PSNGILIFGKQNAARDN----ADYSDVMLTSEEEIKTTNPVATEEYGVADNLQQQNTAPQ	594
AAVrh74	PSSGVIMFGKQGAGKDN----VDYSSVMLTSEEEIKTTNPVATEQYGVWADNLQQQNAAPI	594

FIG. 1B

AAV5	TGTYNIQEIVPGSVWMERDVYLOGPIWAKIPETGAHFHPSAMGGEGGLKHPPPMLIKNT	641
AAV2	TADVNTQGVLPGMVWQDRDVYLOGPIWAKIPHTDGHFHPSPIMGGEGGLKHPPQIILIKNT	651
AAV9	TGMVQNQGILPGMVWQDRDVYLOGPIWAKIPHTDGNFHPSPIMGGEGGMKHPPQIILIKNT	652
AAV8	IGTVNSQGALPGMVWQNRDVYLOGPIWAKIPHTDGNFHPSPIMGGEGGLKHPPQIILIKNT	654
AAVrh74	VGAVNSQGALPGMVWQNRDVYLOGPIWAKIPHTDGNFHPSPIMGGEGGLKHPPQIILIKNT	654
AAV5	PVPGNI-TSPSDVPVSSFITQYSTGQVTVEMEWELKKENSKRWNPFIQYTNNYNDPQFVD	700
AAV2	PVPANPSTTFSAAKFASFITQYSTGQVSVEIEWELQKENSkrwnPEIQYTSNYSKSVNVD	711
AAV9	PVPADPPPTAFNKKLNSFITQYSTGQVSVEIEWELQKENSkrwnPEIQYTSNYSKSNVE	712
AAV8	PVPADPPPTTFNQSKLNSFITQYSTGQVSVEIEWELQKENSkrwnPEIQYTSNYSKTSVD	714
AAVrh74	PVPADPPPTTFNQAKLASFITQYSTGQVSVEIEWELQKENSkrwnPEIQYTSNYSKSTNVD	714
AAV5	FAPDSTGEYRTRRPIGTRYLTRPL	724
AAV2	FTVDTNQGVYSEPRPIGTRYLTRNL	735
AAV9	FAVNTGEGVYSEPRPIGTRYLTRNL	736
AAV8	FAVNTGEGVYSEPRPIGTRYLTRNL	738
AAVrh74	FAVNTGEGVYSEPRPIGTRYLTRNL	738

FIG. 1C

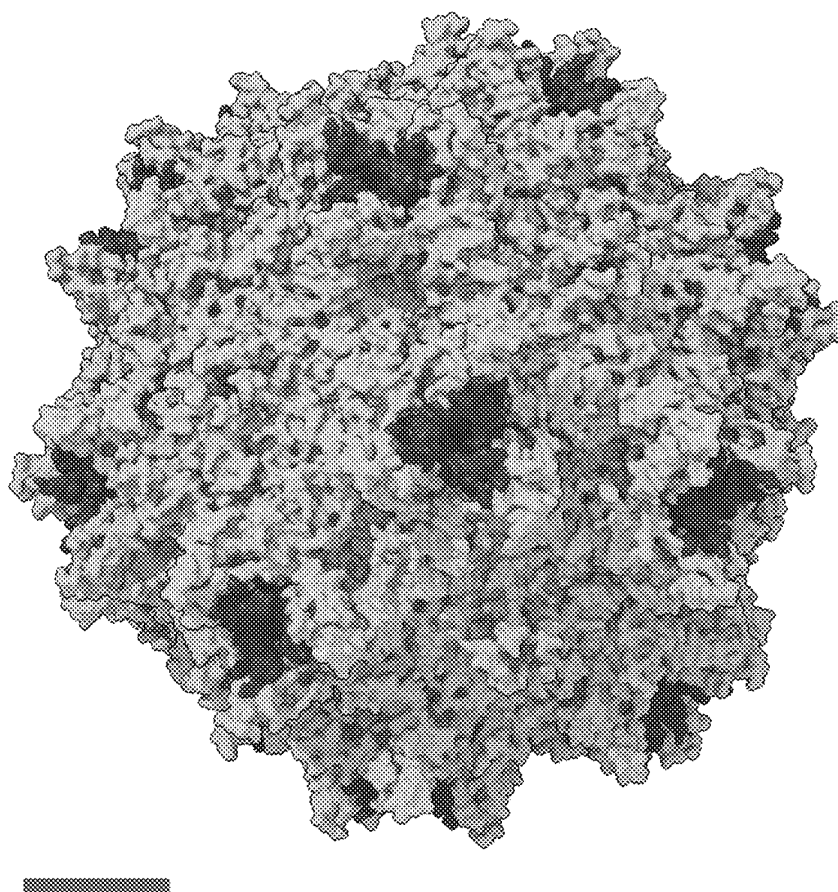


FIG.2A

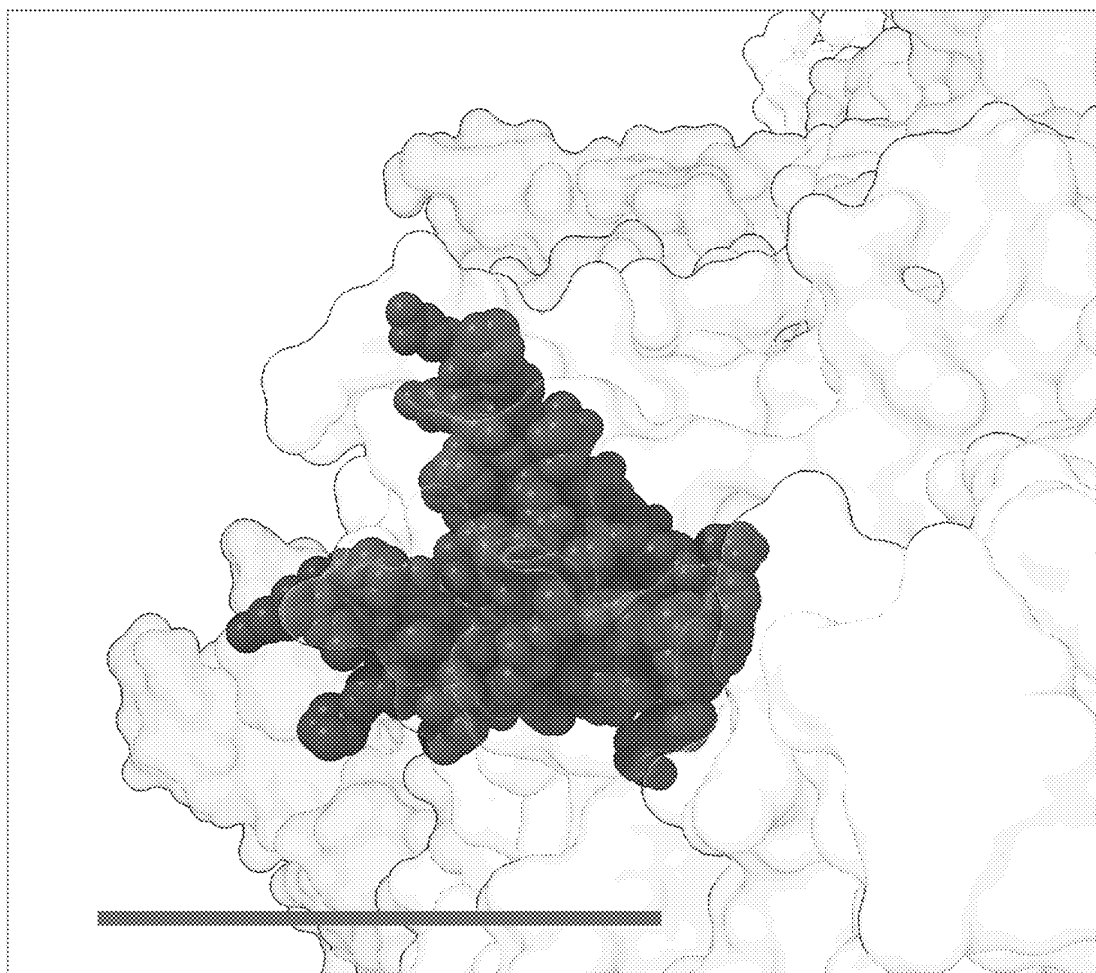


FIG.2B

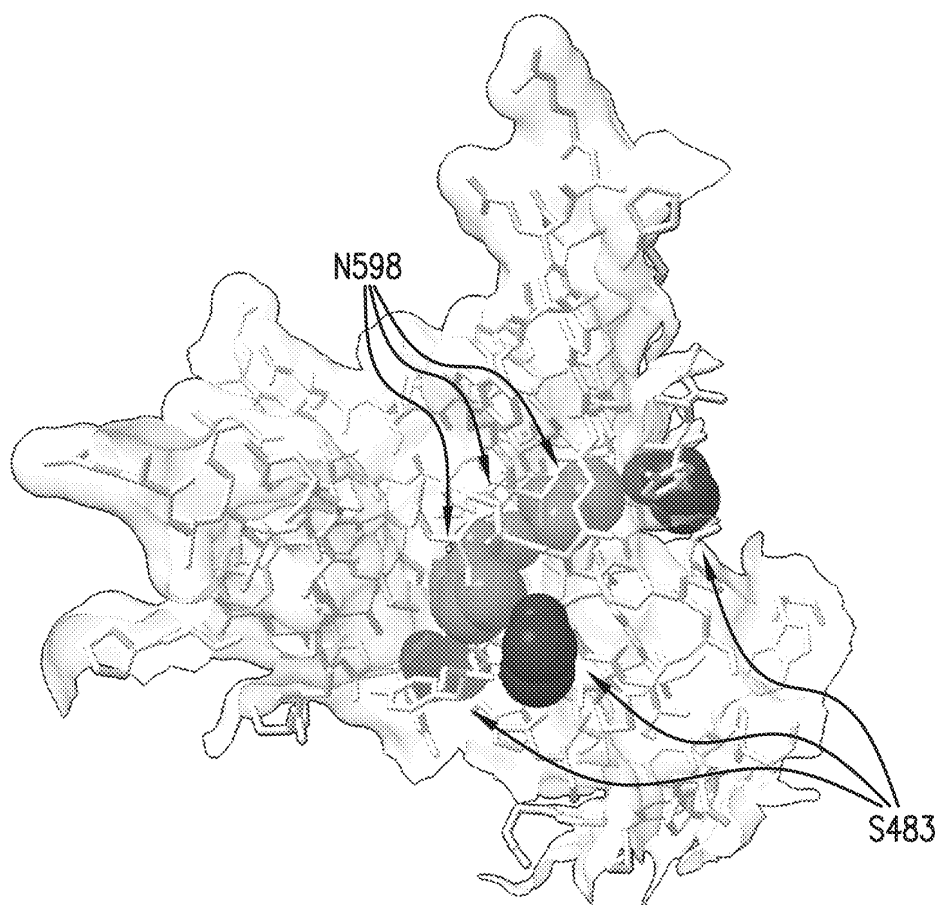


FIG.2C

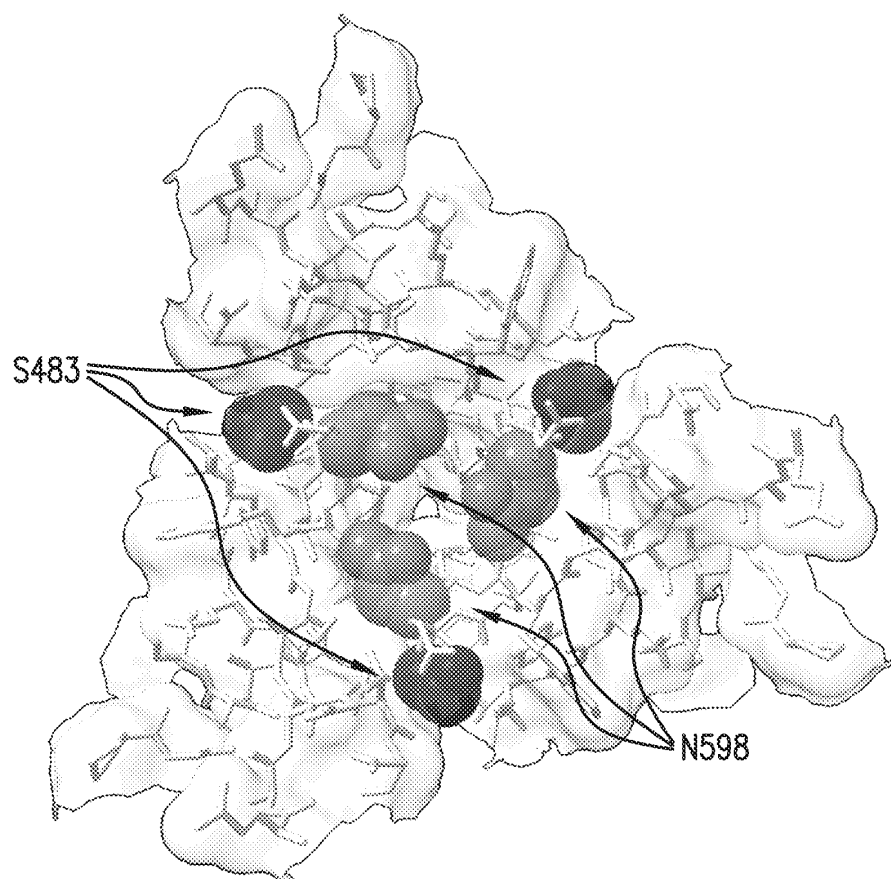


FIG.2D