

FIGURE 1

FIG.1A

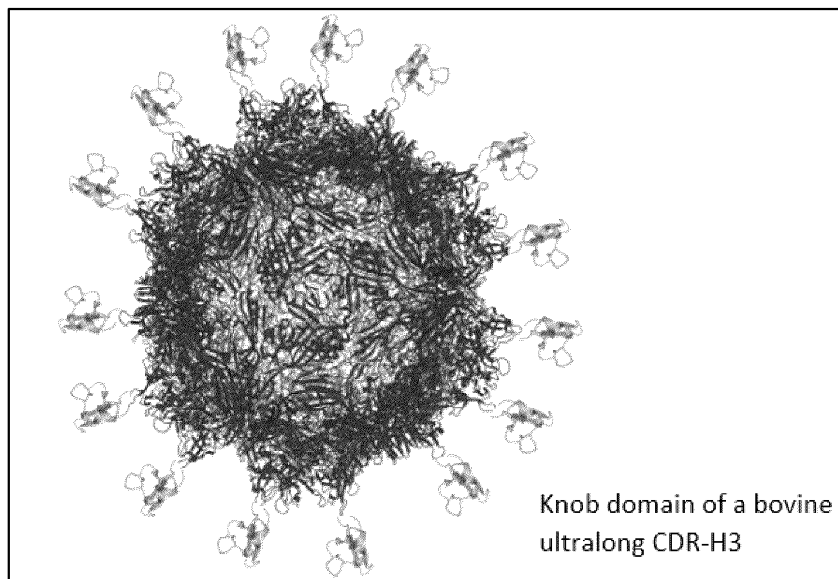


FIG.1B

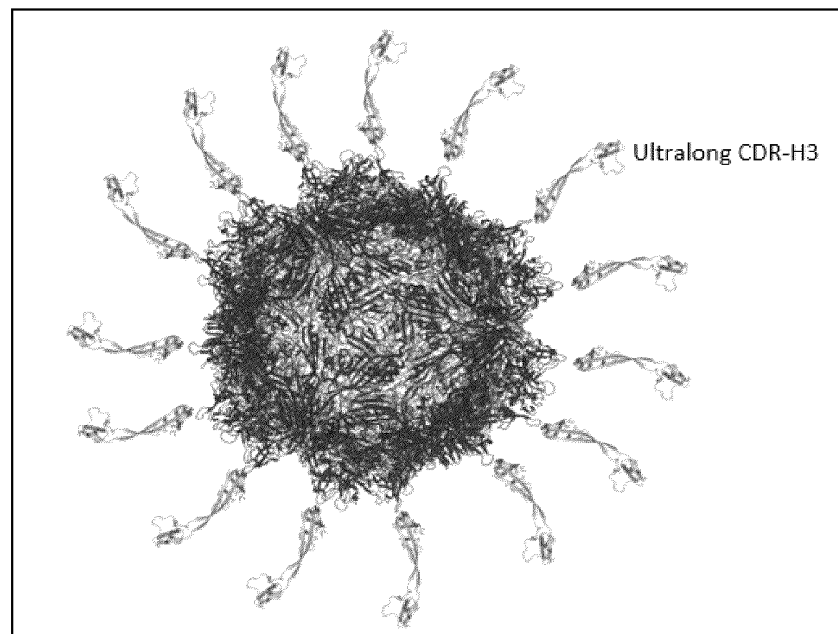


FIGURE 1 CONTINUED

FIG.1C

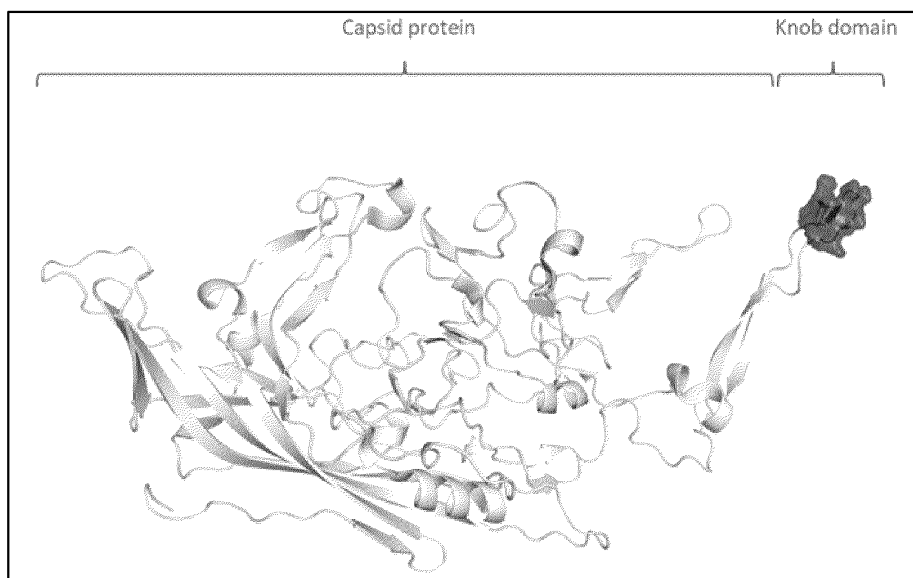


FIG.1D

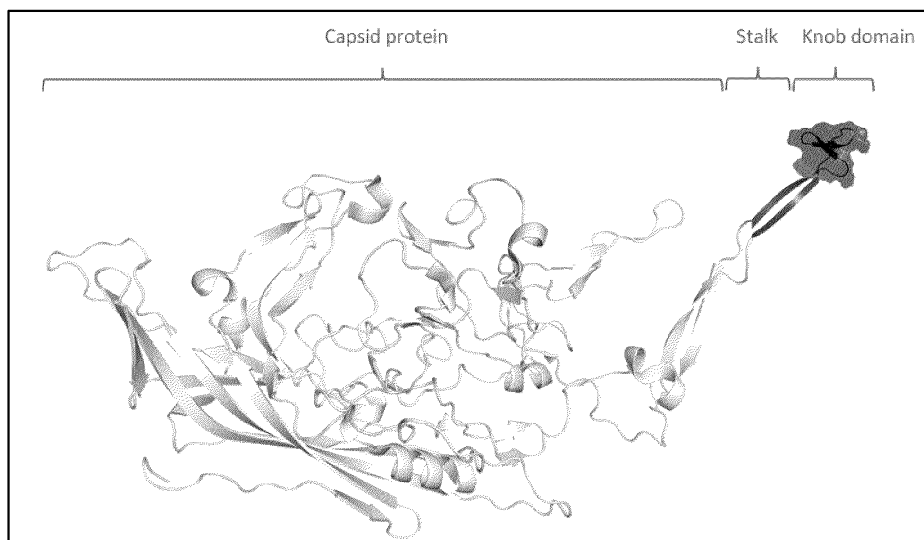


FIGURE 1 CONTINUED

FIG.1E

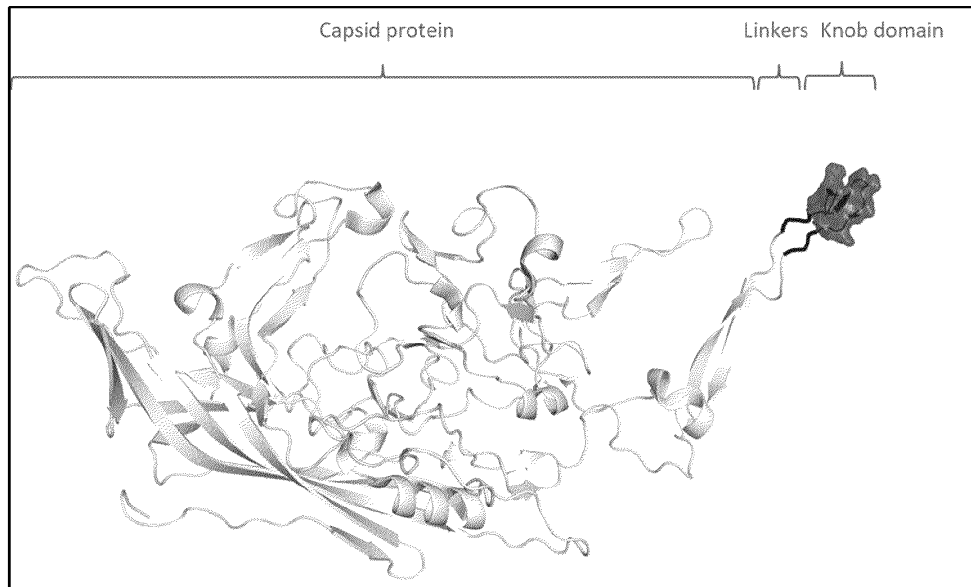


FIG.1F

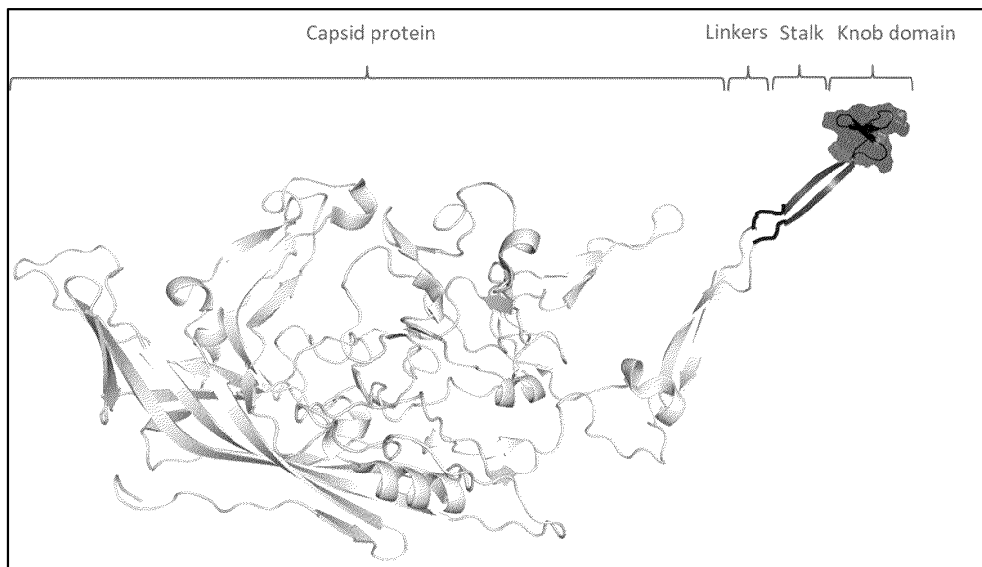


FIGURE 2

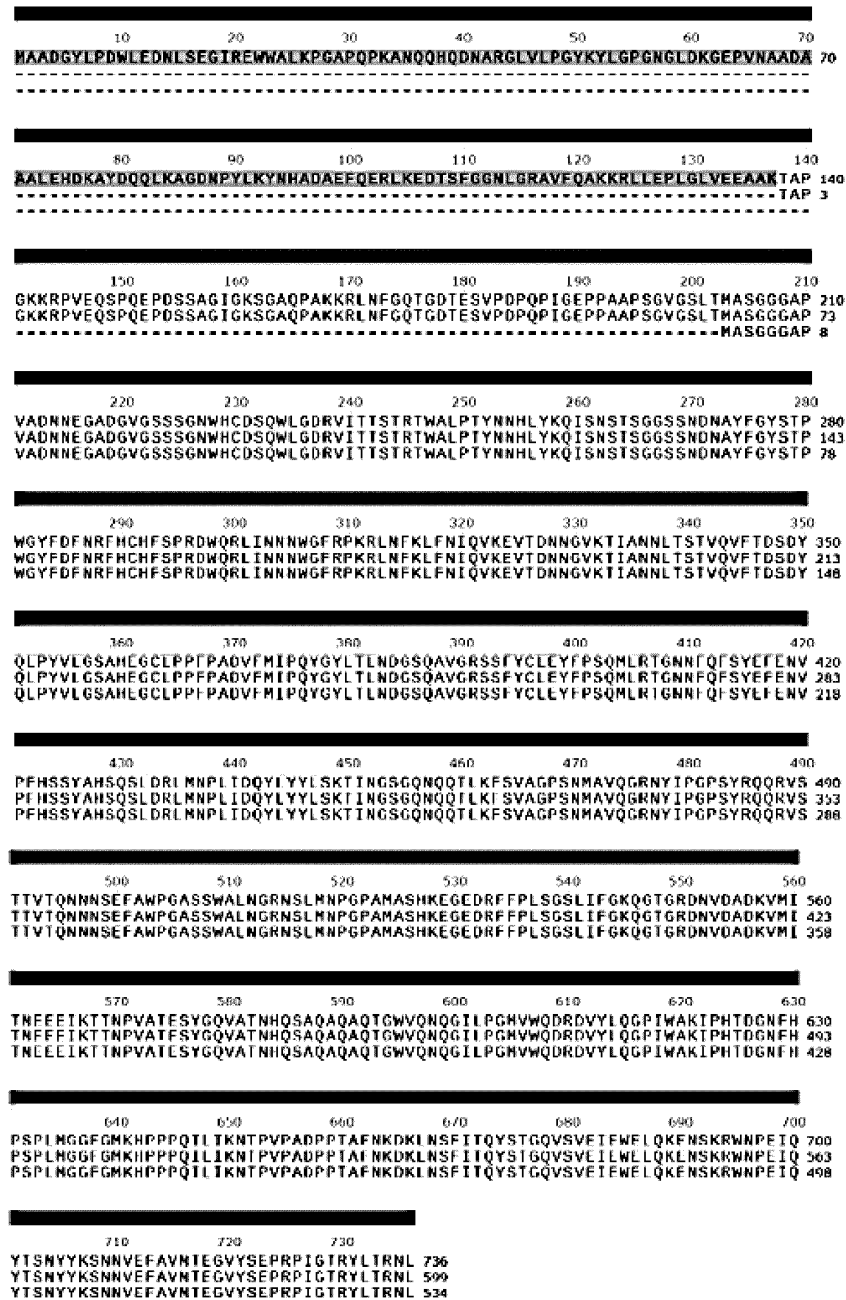


FIGURE 3

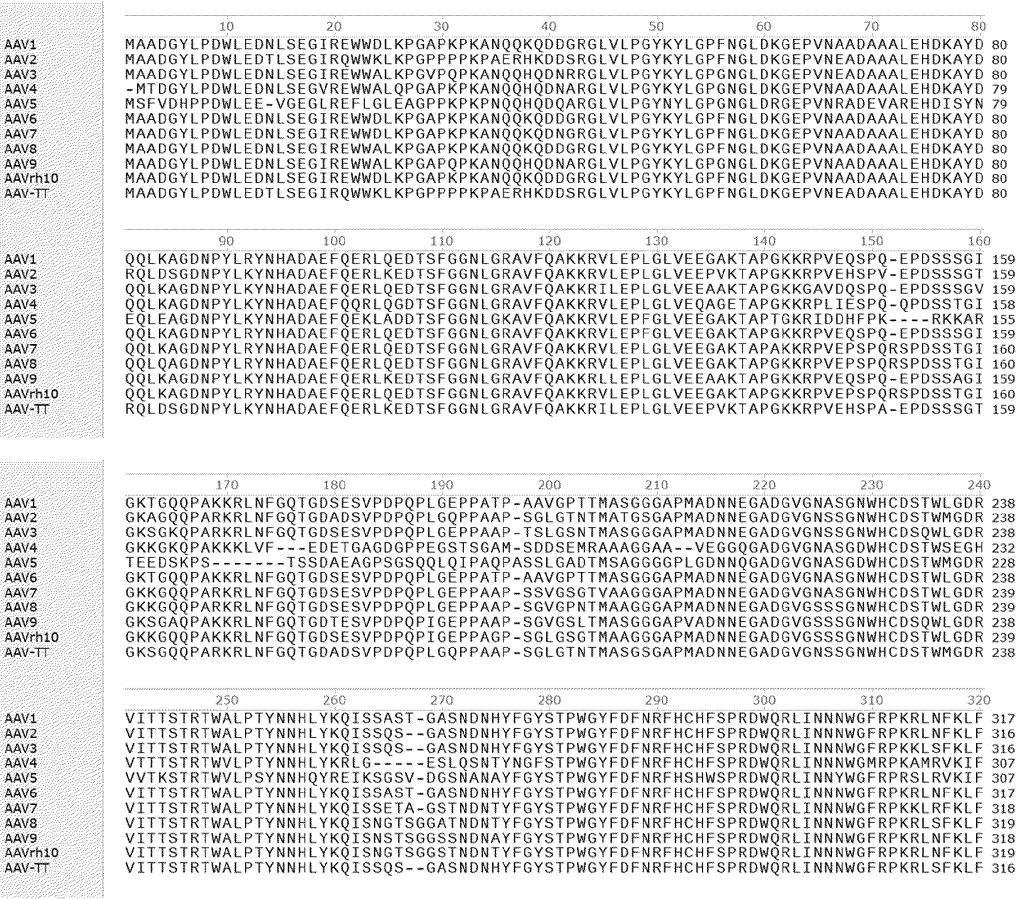


FIGURE 3 CONTINUED

|         |                                                                                     |     |     |     |     |     |     |     |               |
|---------|-------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|---------------|
|         | 330                                                                                 | 340 | 350 | 360 | 370 | 380 | 390 | 400 |               |
| AAV1    | NIQVKEVTNDGVTTIANNLTSTVQVFSOSEYQLPYVLGSAHQGCLPPFPADVFMIPQYGYLTLLNNGS---             |     |     |     |     |     |     |     | QAVGRSSFY 394 |
| AAV2    | NIQVKEVTQNDGTTIANNLTSTVQVFTDSEYQLPYVLGSAHQGCLPPFPADVFMVMPQYGYLTLLNNGS---            |     |     |     |     |     |     |     | QAVGRSSFY 393 |
| AAV3    | NIQVRGVTQNDGTTIANNLTSTVQVFTDSEYQLPYVLGSAHQGCLPPFPADVFMVMPQYGYLTLLNNGS---            |     |     |     |     |     |     |     | QAVGRSSFY 393 |
| AAV4    | NIQVKEVTISNGETTIANNLTSTVQIFADSSYELPYVMDAGQEGSLPPFPNDVFMVMPQYGYCGITGNTSQQTIDRNIFY    |     |     |     |     |     |     |     | 387           |
| AAV5    | NIQVKEVTQDSTTTIANNLTSTVQVFTDDDYQLPYVVGNGTEGCLPAFPQVFTLPQYGYATLNRDN-TENPTERSFFF      |     |     |     |     |     |     |     | 386           |
| AAV6    | NIQVKEVTNDGVTTIANNLTSTVQVFSOSEYQLPYVLGSAHQGCLPPFPADVFMIPQYGYLTLLNNGS---             |     |     |     |     |     |     |     | QAVGRSSFY 394 |
| AAV7    | NIQVKEVTNDGVTTIANNLTSTVQVFSOSEYQLPYVLGSAHQGCLPPFPADVFMIPQYGYLTLLNNGS---             |     |     |     |     |     |     |     | QSVGRSSFY 395 |
| AAV8    | NIQVKEVTQNEGKTIANNLTSTIQVFTDSEYQLPYVLGSAHQGCLPPFPADVFMIPQYGYLTLLNNGS---             |     |     |     |     |     |     |     | QAVGRSSFY 396 |
| AAV9    | NIQVKEVTQNEGKTIANNLTSTVQVFTDSDYQLPYVLGSAHQGCLPPFPADVFMIPQYGYLTLLNNGS---             |     |     |     |     |     |     |     | QAVGRSSFY 395 |
| AAVrh10 | NIQVKEVTQNEGKTIANNLTSTIQVFTDSEYQLPYVLGSAHQGCLPPFPADVFMIPQYGYLTLLNNGS---             |     |     |     |     |     |     |     | QAVGRSSFY 396 |
| AAV-TT  | NIQVKEVTQNDGTTIANNLTSTVQVFTDSEYQLPYVLGSAHQGCLPPFPADVFMVMPQYGYLTLLNNGS---            |     |     |     |     |     |     |     | QAVGRSSFY 393 |
|         | 410                                                                                 | 420 | 430 | 440 | 450 | 460 | 470 | 480 |               |
| AAV1    | CLEYFPSQMLRTGNNFTFSYTFEEVPFHSSYAHQSLSLDRLMNPLIDQVLYLNRTO-NQSGSAQNKDLLFSRGSPAGMSV    |     |     |     |     |     |     |     | 473           |
| AAV2    | CLEYFPSQMLRTGNNFTFSYTFEDVPFHSSYAHQSLSLDRLMNPLIDQVLYLNRTO-NQSGSAQNKDLLFSRGSPAGMSV    |     |     |     |     |     |     |     | 472           |
| AAV3    | CLEYFPSQMLRTGNNFTFSYTFEDVPFHSSYAHQSLSLDRLMNPLIDQVLYLNRTO-NQSGSAQNKDLLFSRGSPAGMSV    |     |     |     |     |     |     |     | 473           |
| AAV4    | CLEYFPSQMLRTGNNFTFSYTFEVPFHSSYAHQSLSLDRLMNPLIDQVLYLNRTO-NQSGSAQNKDLLFSRGSPAGMSV     |     |     |     |     |     |     |     | 467           |
| AAV5    | CLEYFPSQMLRTGNNFTFSYTFEVPFHSSYAHQSLSLDRLMNPLIDQVLYLNRTO-NQSGSAQNKDLLFSRGSPAGMSV     |     |     |     |     |     |     |     | 459           |
| AAV6    | CLEYFPSQMLRTGNNFTFSYTFEDVPFHSSYAHQSLSLDRLMNPLIDQVLYLNRTO-NQSGSAQNKDLLFSRGSPAGMSV    |     |     |     |     |     |     |     | 473           |
| AAV7    | CLEYFPSQMLRTGNNFTFSYTFEDVPFHSSYAHQSLSLDRLMNPLIDQVLYLNRTO-NQSGSAQNKDLLFSRGSPAGMSV    |     |     |     |     |     |     |     | 475           |
| AAV8    | CLEYFPSQMLRTGNNFTFSYTFEDVPFHSSYAHQSLSLDRLMNPLIDQVLYLNRTO-NQSGSAQNKDLLFSRGSPAGMSV    |     |     |     |     |     |     |     | 475           |
| AAV9    | CLEYFPSQMLRTGNNFTFSYTFEVPFHSSYAHQSLSLDRLMNPLIDQVLYLNRTO-NQSGSAQNKDLLFSRGSPAGMSV     |     |     |     |     |     |     |     | 473           |
| AAVrh10 | CLEYFPSQMLRTGNNFTFSYTFEVPFHSSYAHQSLSLDRLMNPLIDQVLYLNRTO-NQSGSAQNKDLLFSRGSPAGMSV     |     |     |     |     |     |     |     | 475           |
| AAV-TT  | CLEYFPSQMLRTGNNFTFSYTFEDVPFHSSYAHQSLSLDRLMNPLIDQVLYLNRTO-NQSGSAQNKDLLFSRGSPAGMSV    |     |     |     |     |     |     |     | 472           |
|         | 490                                                                                 | 500 | 510 | 520 | 530 | 540 | 550 | 560 |               |
| AAV1    | QPKNWLPGPCYRQQRVSKTKTDNNNSNFTWTGASK-----YHLNGRESIINPGTAMASHKDDKFFPMSGVMIF-GK        |     |     |     |     |     |     |     | 545           |
| AAV2    | QSRNWLPGPCYRQQRVSKTSADNNNSEYSWTGATK-----YHLNGRDSLVPNGPAMASHKDDKFFPMSGVLIF-GK        |     |     |     |     |     |     |     | 544           |
| AAV3    | QARNWLPGPCYRQQRVSKTANDNNNSNFTWTGATK-----YHLNGRDSLVPNGPAMASHKDDKFFPMSGVLIF-GK        |     |     |     |     |     |     |     | 545           |
| AAV4    | FKNWLPGPSIKQGGFSKIA--NQYKIPATGSDSLIKYETHSTLDGRWSALTPGPPMATAGPADSKF--SNSQLIFAGP      |     |     |     |     |     |     |     | 543           |
| AAV5    | TYKNWFPMPGRTQGWNLGSGVNRASVSFAFATTNR-----MELEGASYQVPPQNGMTNQLGSSNTYALENTMIFNSQ       |     |     |     |     |     |     |     | 532           |
| AAV6    | QPKNWLPGPCYRQQRVSKTKTDNNNSNFTWTGASK-----YHLNGRESIINPGTAMASHKDDKFFPMSGVMIF-GK        |     |     |     |     |     |     |     | 545           |
| AAV7    | QAKNWLPGPCYRQQRVSKTLDQNNNSNFAWTGATK-----YHLNGRNSLVNPGVAMATHKDDERFFPSSGVLIF-GK       |     |     |     |     |     |     |     | 547           |
| AAV8    | QAKNWLPGPCYRQQRVSTTTGQNNNSNFAWTAGTK-----YHLNGRNSLVNPGVAMATHKDDERFFPSSGVLIF-GK       |     |     |     |     |     |     |     | 547           |
| AAV9    | QGRNYIPGPSYRQQRVSTTTVQNNNSNFAWPGASS-----WALNGRNSLVNPGVAMATHKDDERFFPSSGVLIF-GK       |     |     |     |     |     |     |     | 545           |
| AAVrh10 | QAKNWLPGPCYRQQRVSTTTLSQNNNSNFAWTGATK-----YHLNGRDSLVPNGVAMATHKDDERFFPSSGVLIF-GK      |     |     |     |     |     |     |     | 547           |
| AAV-TT  | QSRNWLPGPCYRQQRVSKTAADNNNSDYSWTGATK-----YHLNGRDSLVPNGPAMASHKDDKFFPMSGVLIF-GK        |     |     |     |     |     |     |     | 544           |
|         | 570                                                                                 | 580 | 590 | 600 | 610 | 620 | 630 | 640 |               |
| AAV1    | ESAGASNTAL--DNVMTDEEEIKATNPVATERFGTVAVNFQSSSTDPATGVDVHAMGALPGMVWQDRDQVYLQGGPIWAKIP  |     |     |     |     |     |     |     | 623           |
| AAV2    | QGSEKTNDVI--EKVMTDEEEIRTTNPVATEQYGSVSTNLQGRNRQAATADVNTQGVLPGMVWQDRDQVYLQGGPIWAKIP   |     |     |     |     |     |     |     | 622           |
| AAV3    | EGTTASNAEL--DNVMTDEEEIRTTNPVATEQYGTAVNNLQSSNTAPTGTGVNHQGALPGMVWQDRDQVYLQGGPIWAKIP   |     |     |     |     |     |     |     | 623           |
| AAV4    | KQNGNTATVP--GTLIFTSEEEAATNATDMDWGNLPGDQSSNLPITVDRLTALGAVPGMVWQDRDQVYLQGGPIWAKIP     |     |     |     |     |     |     |     | 621           |
| AAV5    | PANPGTTATYLEGNMLITSESETQPVNRVAVNVGQMATNNQSSSTTAPATGTYNLQEI VPGSVWMERDQVYLQGGPIWAKIP |     |     |     |     |     |     |     | 612           |
| AAV6    | ESAGASNTAL--DNVMTDEEEIKATNPVATERFGTVAVNNLQSSSTDPATGVDVHMALPGMVWQDRDQVYLQGGPIWAKIP   |     |     |     |     |     |     |     | 623           |
| AAV7    | TGA-TNKTTL--ENVLMTNEEEIRPTNPVATEEYGVSSNLQAANTAAQTQVNVNQGALPGMVWQDRDQVYLQGGPIWAKIP   |     |     |     |     |     |     |     | 624           |
| AAV8    | QNAARDNADY--SDVMLTSEEEIKTTNPVATEEYGVADNLQQQNTAPQIGTVNSQGALPGMVWQDRDQVYLQGGPIWAKIP   |     |     |     |     |     |     |     | 625           |
| AAV9    | QGTGRDNVDA--DKVMTNEEEIKTTNPVATESYGVATNHQSAQAQAQTGWVQNGILPGMVWQDRDQVYLQGGPIWAKIP     |     |     |     |     |     |     |     | 623           |
| AAVrh10 | QGAGKDNVDY--SSVMTSEEEIKTTNPVATEYGVVADNLQQQNAAPIVGAVNSQGALPGMVWQDRDQVYLQGGPIWAKIP    |     |     |     |     |     |     |     | 625           |
| AAV-TT  | QDSGKTNDVI--EKVMTDEEEIRTTNPVATEQYGSVSTNLQSGNTQAATSDVNTQGVLPGMVWQDRDQVYLQGGPIWAKIP   |     |     |     |     |     |     |     | 622           |

FIGURE 3 CONTINUED

|         |                                                                      |             |     |     |     |     |     |     |
|---------|----------------------------------------------------------------------|-------------|-----|-----|-----|-----|-----|-----|
|         | 650                                                                  | 660         | 670 | 680 | 690 | 700 | 710 | 720 |
| AAV1    | HTDGHFHPSPLMGGFGLKNPPQILIKNTPVPANPPAEFSATKFASFITQYSTGQVSVEIEWELQKENS | KRWNPEVQYIS | 703 |     |     |     |     |     |
| AAV2    | HTDGHFHPSPLMGGFGLKHPPQILIKNTPVPANPSTTFSAKFASFITQYSTGQVSVEIEWELQKENS  | KRWNPEIQYIS | 702 |     |     |     |     |     |
| AAV3    | HTDGHFHPSPLMGGFGLKHPPQILIKNTPVPANPPTTFSPAKFASFITQYSTGQVSVEIEWELQKENS | KRWNPEIQYIS | 703 |     |     |     |     |     |
| AAV4    | HTDGHFHPSPLIGGFGLKHPPQIFIKNTPVPANPATTFSSTPVNSFITQYSTGQVSVIDWEIQKENS  | KRWNPEVQFTS | 701 |     |     |     |     |     |
| AAV5    | ETGAHFHPSAMGGFGLKHPPPMMLIKNTPVPGN-ITSFSDVPVSSFITQYSTGQVTVEIEWELKKENS | KRWNPEIQYTN | 691 |     |     |     |     |     |
| AAV6    | HTDGHFHPSPLMGGFGLKHPPQILIKNTPVPANPPAEFSATKFASFITQYSTGQVSVEIEWELQKENS | KRWNPEVQYIS | 703 |     |     |     |     |     |
| AAV7    | HTDGNFHPSPLMGGFGLKHPPQILIKNTPVPANPPEVFTPAKFASFITQYSTGQVSVEIEWELQKENS | KRWNPEIQYIS | 704 |     |     |     |     |     |
| AAV8    | HTDGNFHPSPLMGGFGLKHPPQILIKNTPVPADPPTTFNQSKLNSFITQYSTGQVSVEIEWELQKENS | KRWNPEIQYIS | 705 |     |     |     |     |     |
| AAV9    | HTDGNFHPSPLMGGFGMKHPPQILIKNTPVPADPPTAFNKDKLNSFITQYSTGQVSVEIEWELQKENS | KRWNPEIQYIS | 703 |     |     |     |     |     |
| AAVrh10 | HTDGNFHPSPLMGGFGLKHPPQILIKNTPVPADPPTTFSAKLASFITQYSTGQVSVEIEWELQKENS  | KRWNPEIQYIS | 705 |     |     |     |     |     |
| AAV-TT  | HTDGHFHPSPLMGGFGLKHPPQILIKNTPVPANPSTTFSAKFASFITQYSTGQVSVEIEWELQKENS  | KRWNPEIQYIS | 702 |     |     |     |     |     |
|         | 730                                                                  | 740         | 750 |     |     |     |     |     |
| AAV1    | NYAKSANVDFIVDNNGLYTEPRPIGTRYLTRPL                                    | 736         |     |     |     |     |     |     |
| AAV2    | NYNKSVMVDFIVDTNGVYSEPRPIGTRYLTRNL                                    | 735         |     |     |     |     |     |     |
| AAV3    | NYNKSVMVDFIVDTNGVYSEPRPIGTRYLTRNL                                    | 736         |     |     |     |     |     |     |
| AAV4    | NYGQONSLLWAPDAAGKYTEPRAIGTRYLTHHL                                    | 734         |     |     |     |     |     |     |
| AAV5    | NYNDPQFVDFAPDSTGEYRTTRPIGTRYLTRPL                                    | 724         |     |     |     |     |     |     |
| AAV6    | NYAKSANVDFIVDNNGLYTEPRPIGTRYLTRPL                                    | 736         |     |     |     |     |     |     |
| AAV7    | NFEKQTGVDFAVDSQGVYSEPRPIGTRYLTRNL                                    | 737         |     |     |     |     |     |     |
| AAV8    | NYKSTSVDFAVNTEGVYSEPRPIGTRYLTRNL                                     | 738         |     |     |     |     |     |     |
| AAV9    | NYKSNVDFAVNTEGVYSEPRPIGTRYLTRNL                                      | 736         |     |     |     |     |     |     |
| AAVrh10 | NYKSTNVDFAVNTDGTSEPRPIGTRYLTRNL                                      | 738         |     |     |     |     |     |     |
| AAV-TT  | NYNKSVMVDFIVDTNGVYSEPRPIGTRYLTRNL                                    | 735         |     |     |     |     |     |     |

FIGURE 4

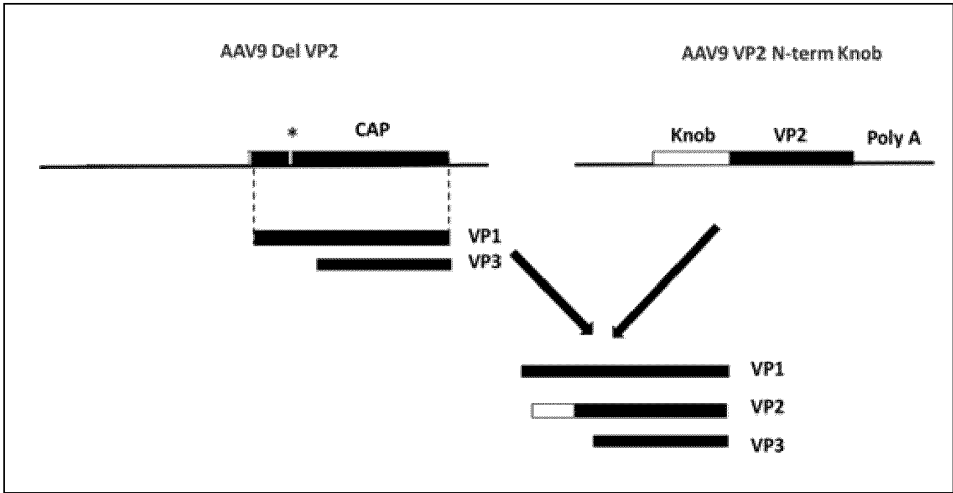


FIGURE 5

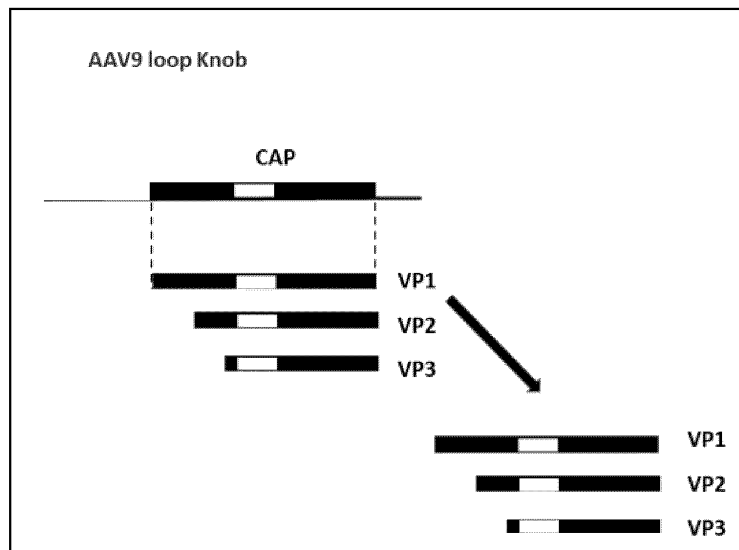


FIGURE 6

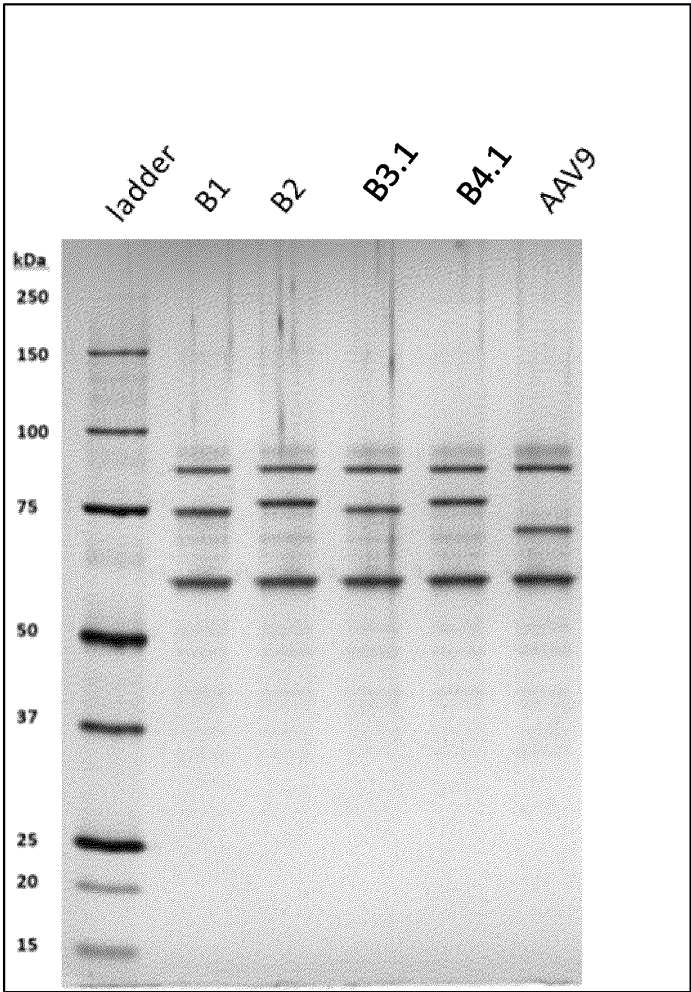


FIGURE 7

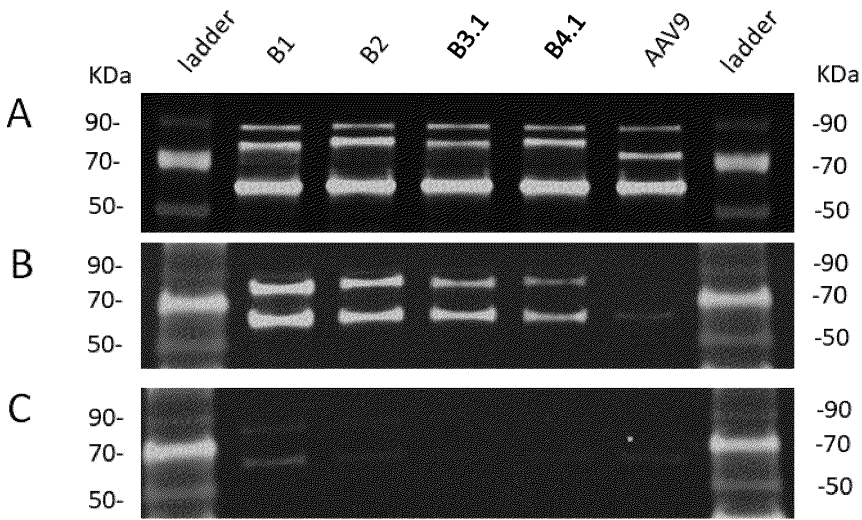


FIGURE 8

FIG.8A

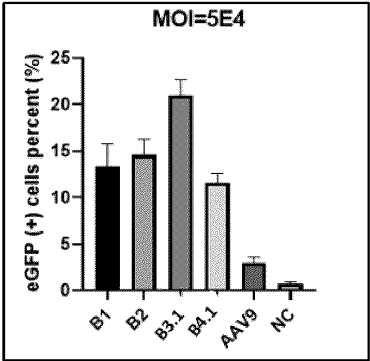


FIG.8B

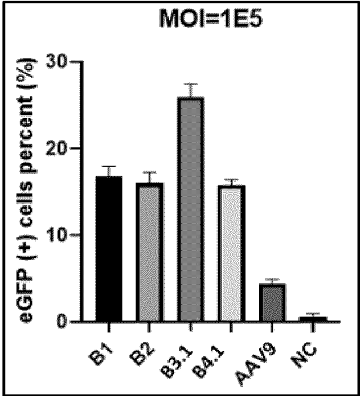


FIG.8C

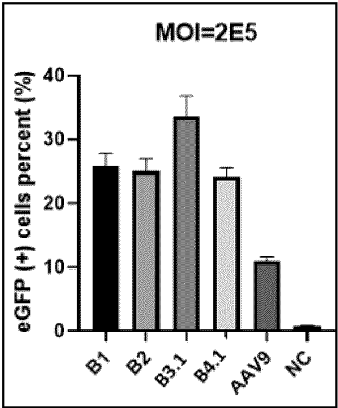


FIGURE 9

FIG.9A

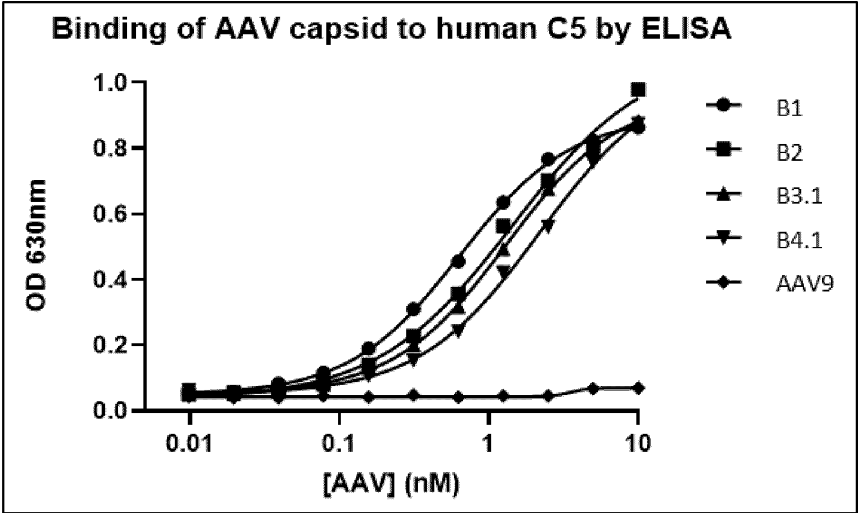


FIG.9B

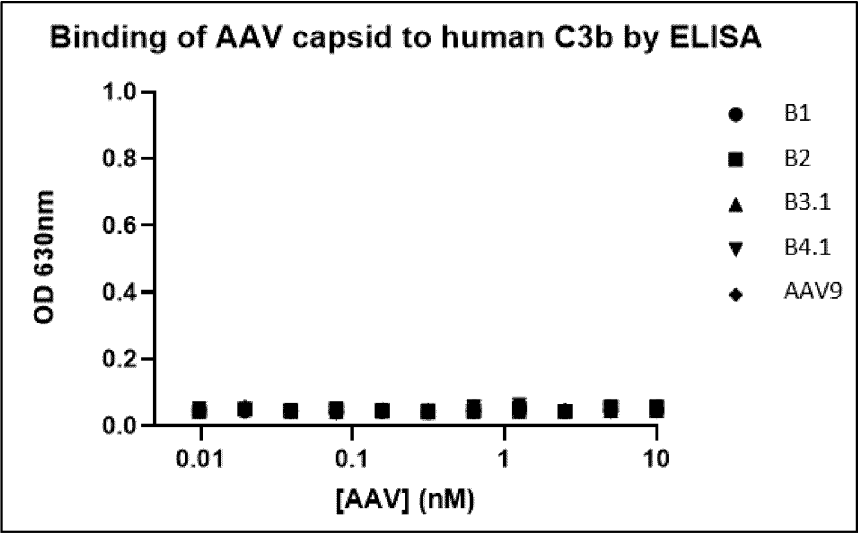


FIGURE 10

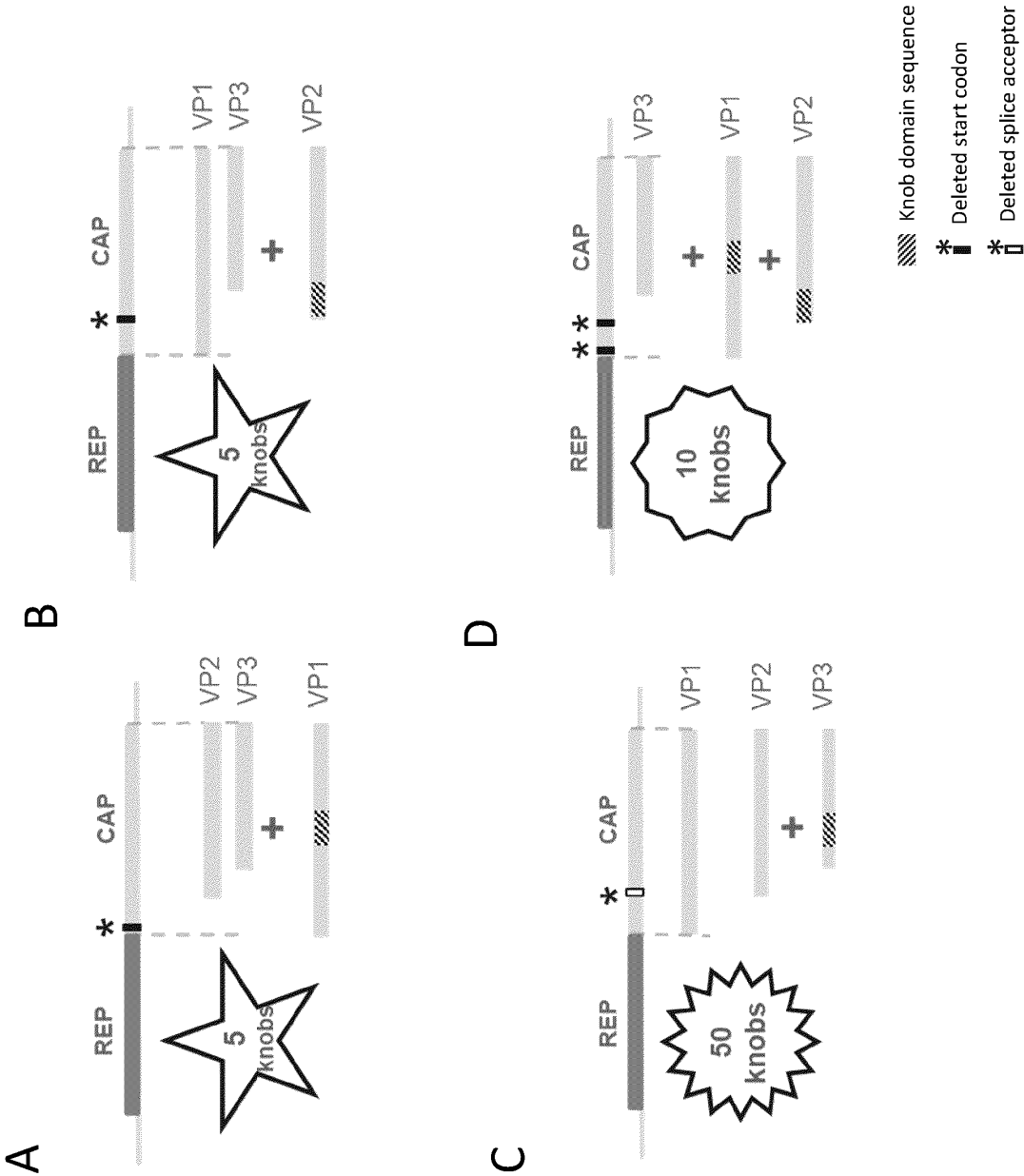


FIGURE 10 CONTINUED

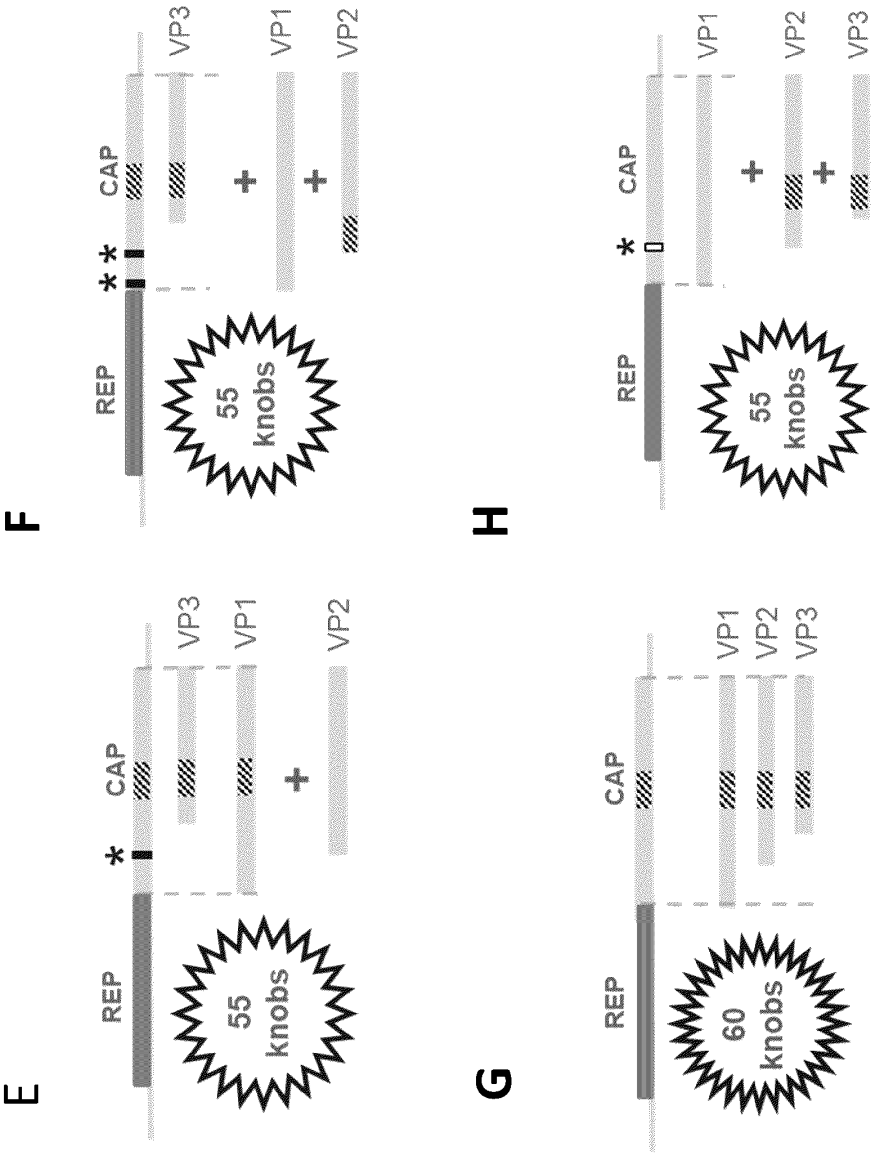


FIGURE 11

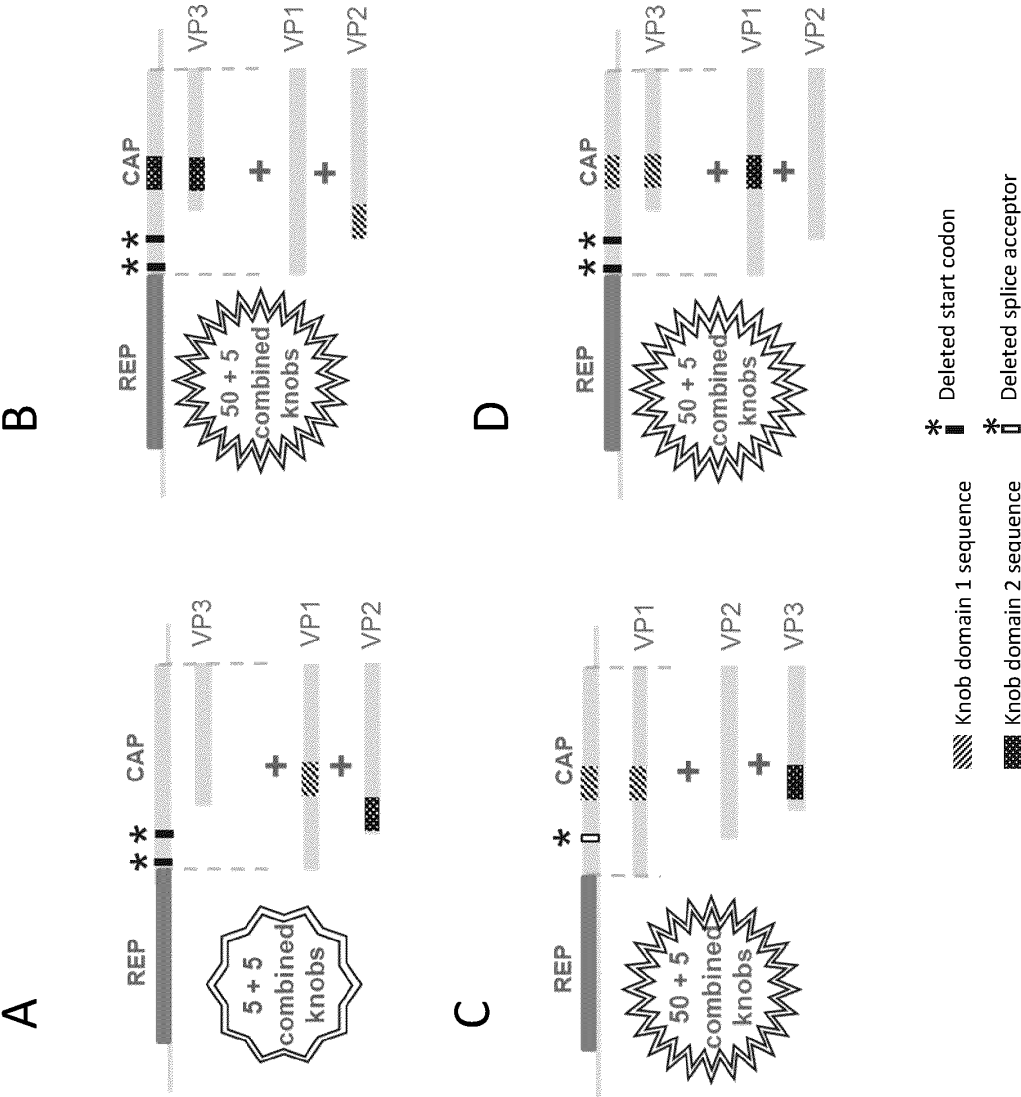


FIGURE 12

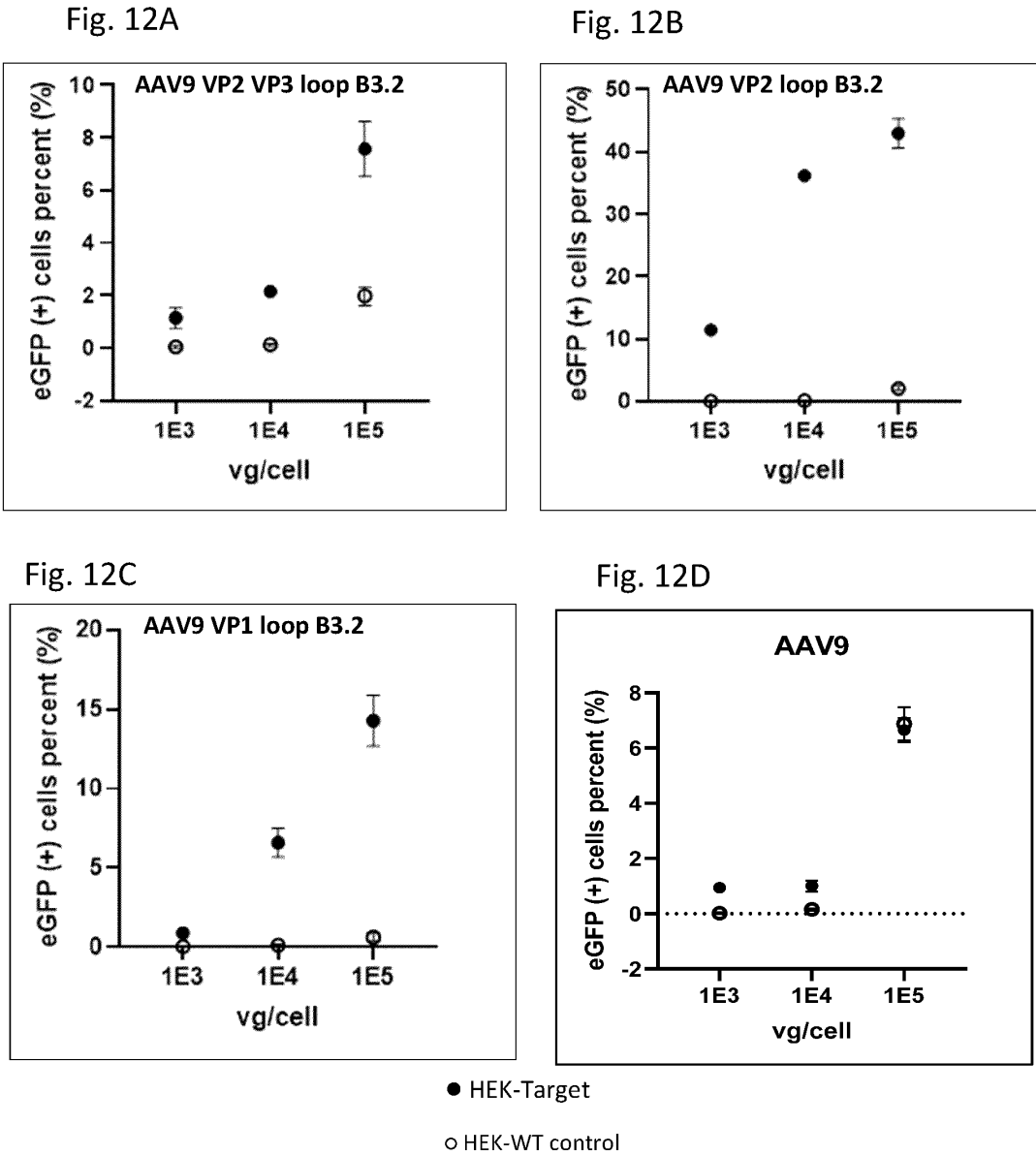


FIGURE 12 CONTINUED

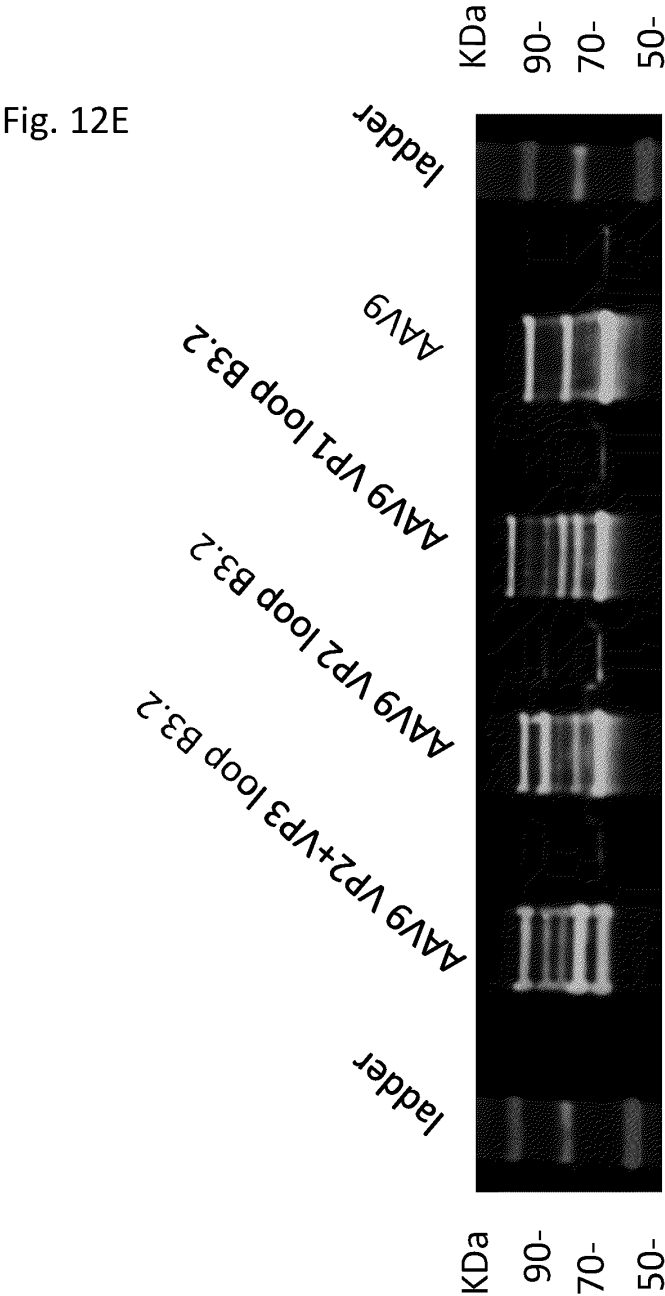


FIGURE 13

Fig. 13A

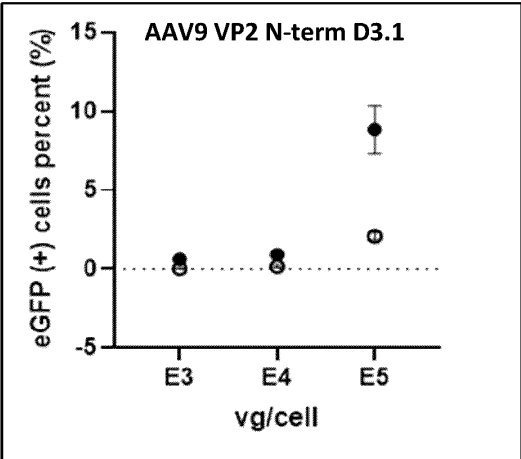


Fig. 13B

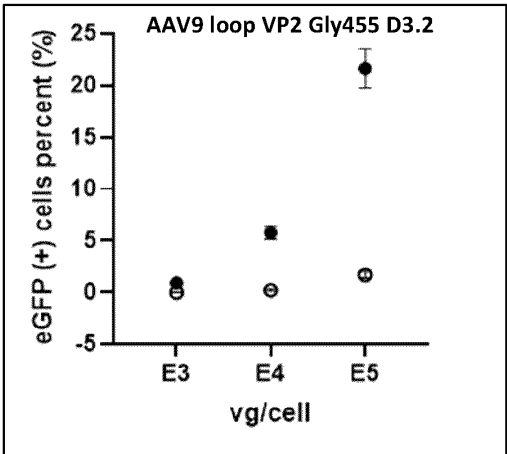
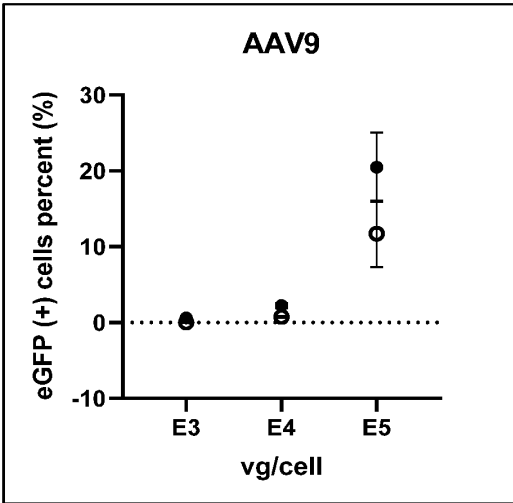


Fig. 13C



● HEK-Target  
○ HEK-WT control

FIGURE 14

Fig. 14A

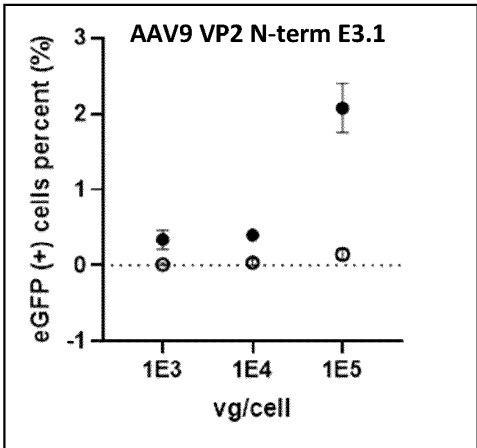


Fig. 14B

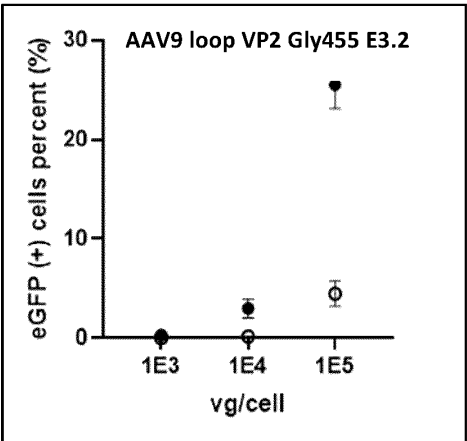
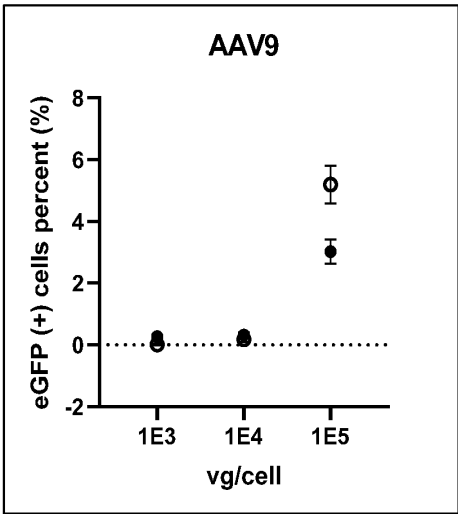


Fig. 14C



● HEK-Target  
○ HEK-WT control

FIGURE 15

Fig. 15A

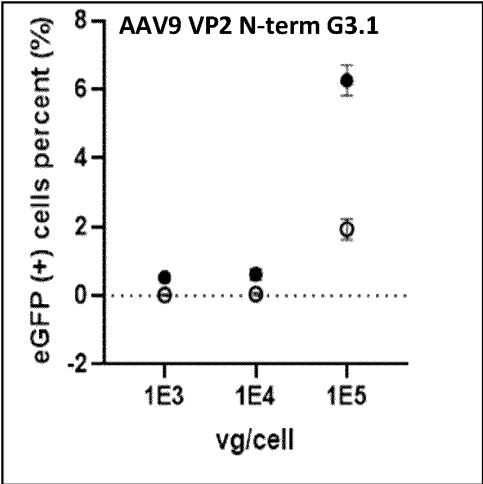


Fig. 15B

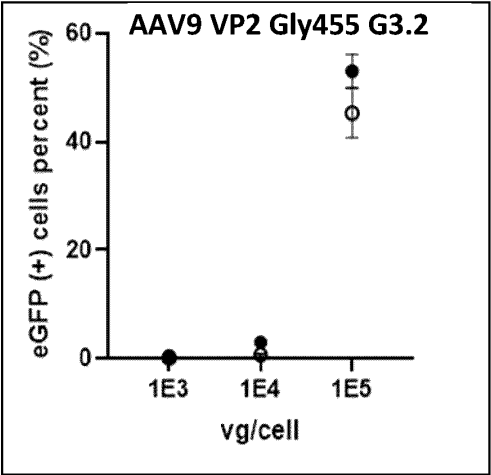
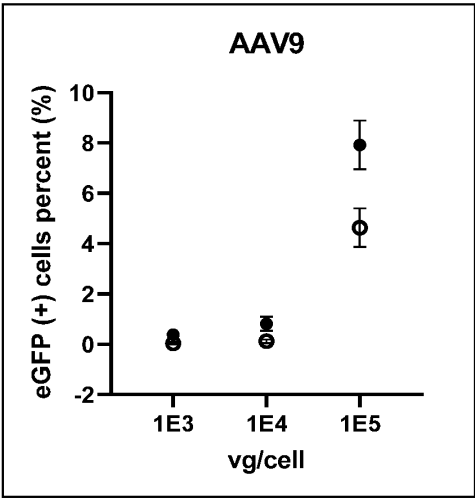


Fig. 15C



● HEK-Target  
○ HEK-WT control

FIGURE 16

Fig. 16A

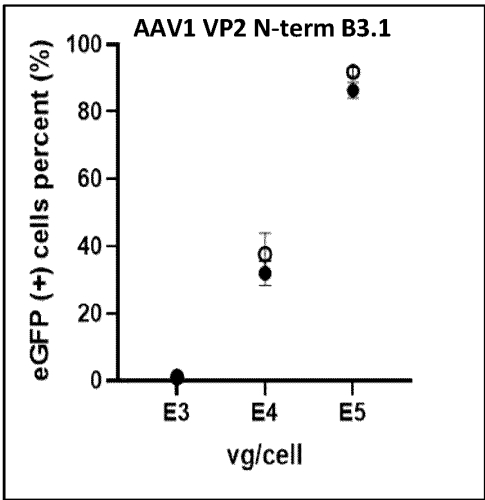
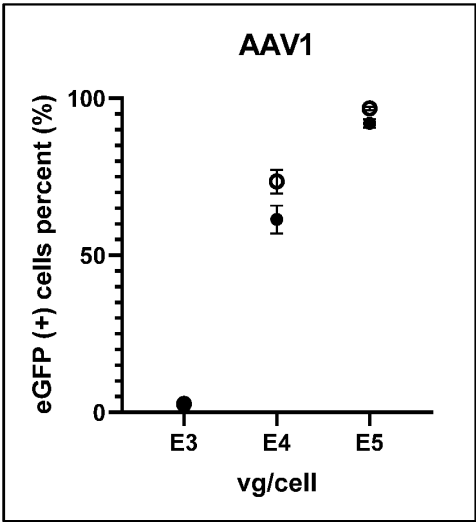


Fig. 16B



● HEK-Target  
○ HEK-WT control

FIGURE 17

Fig. 17A

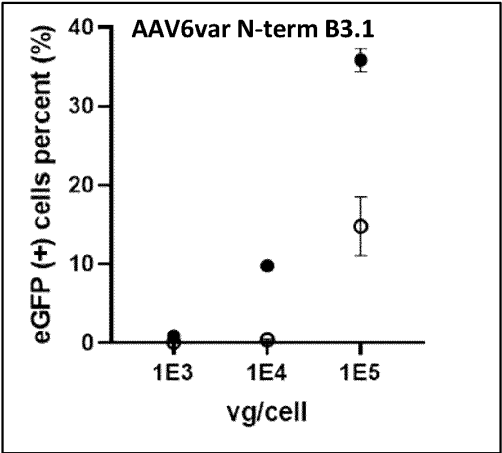


Fig. 17B

● HEK-Target  
○ HEK-WT control

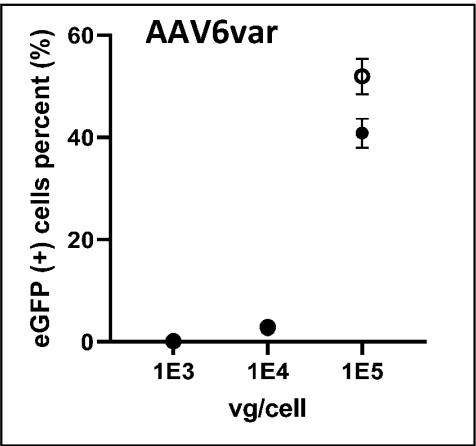


FIGURE 18

Fig. 18A

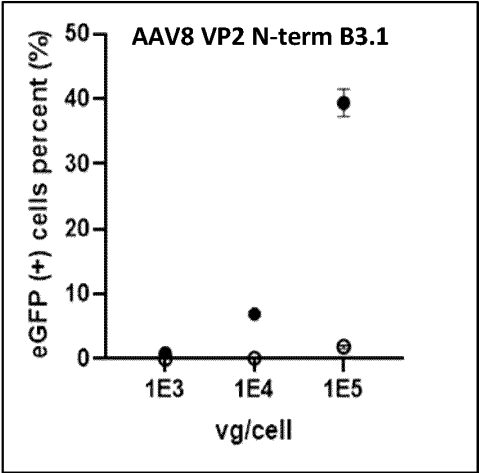


Fig. 18B

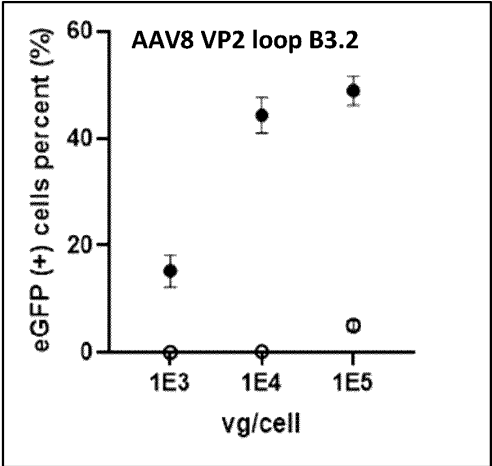
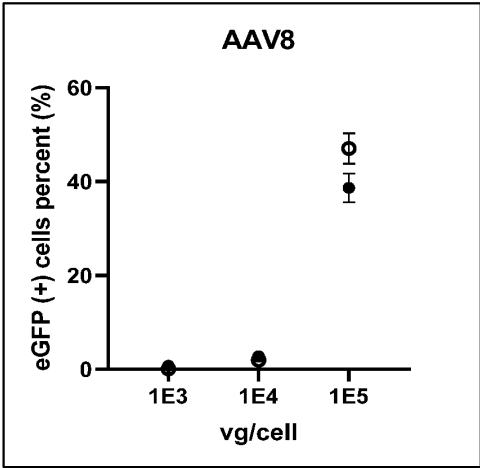


Fig. 18C



● HEK-Target  
○ HEK-WT control

FIGURE 18 CONTINUED

Fig. 18D

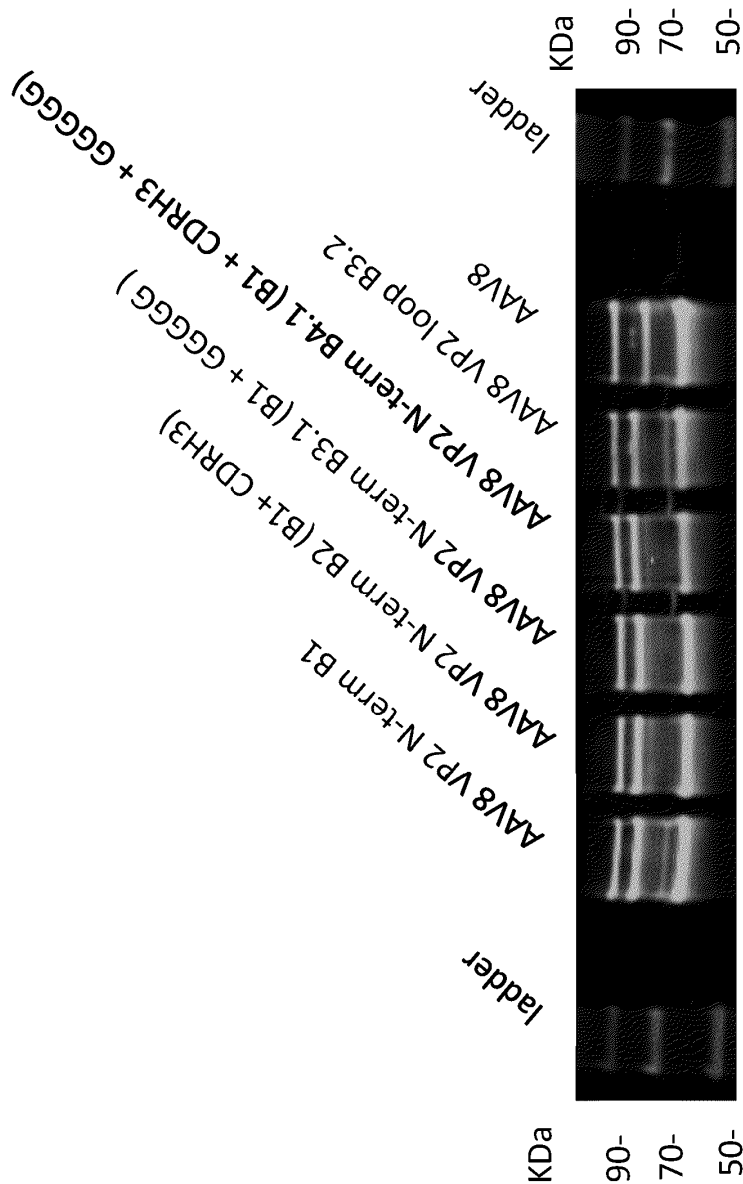


FIGURE 19

Fig. 19A

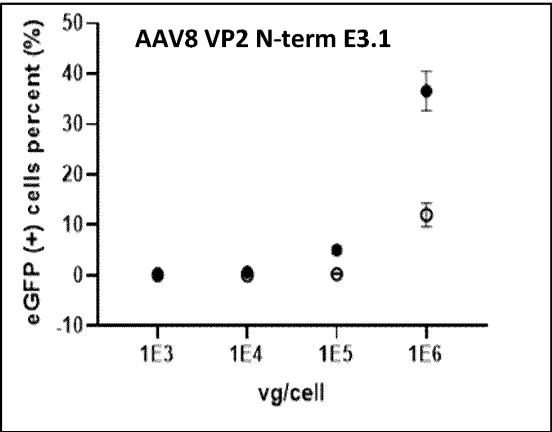


Fig. 19B

● HEK-Target  
○ HEK-WT control

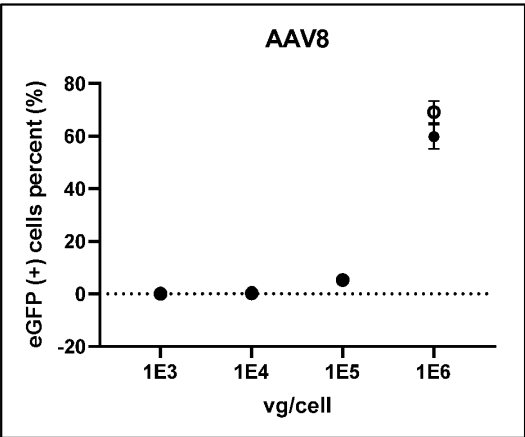


FIGURE 20

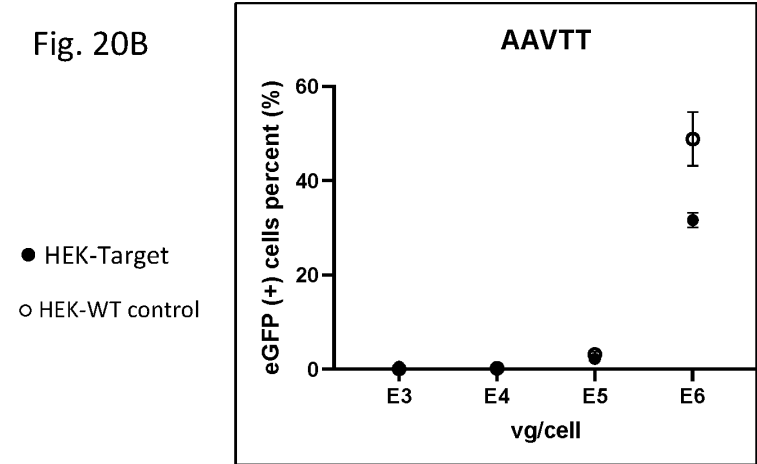
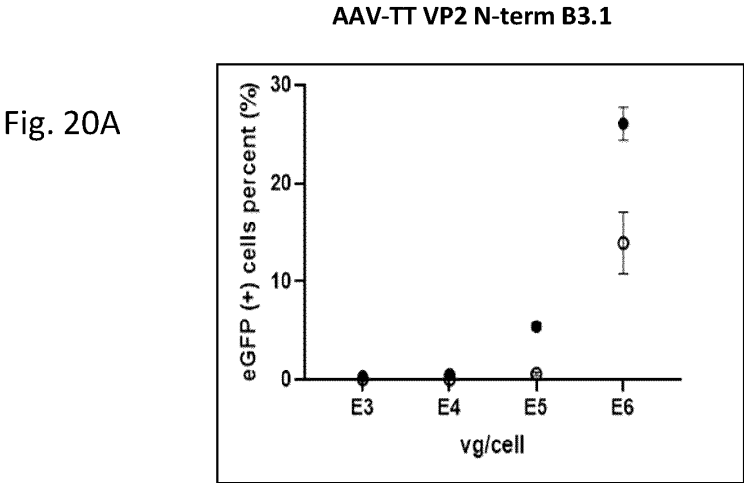


FIGURE 21

Fig. 21A                      AAV-TT VP2 N-term G3.1

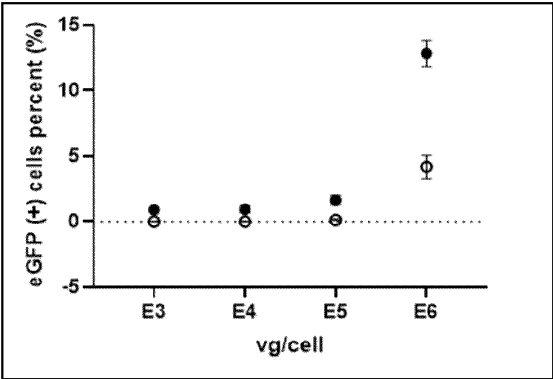
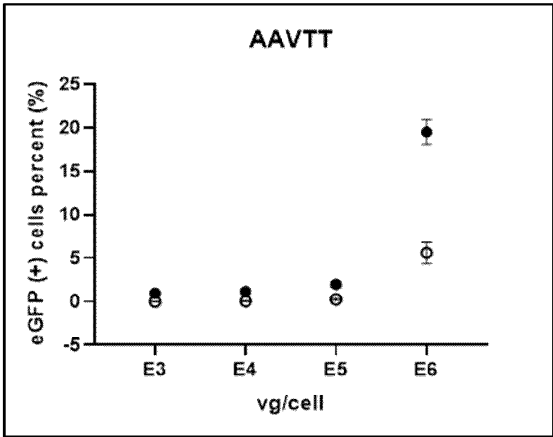


Fig. 21B



● HEK-Target  
○ HEK-WT control

FIGURE 22

Fig. 22A

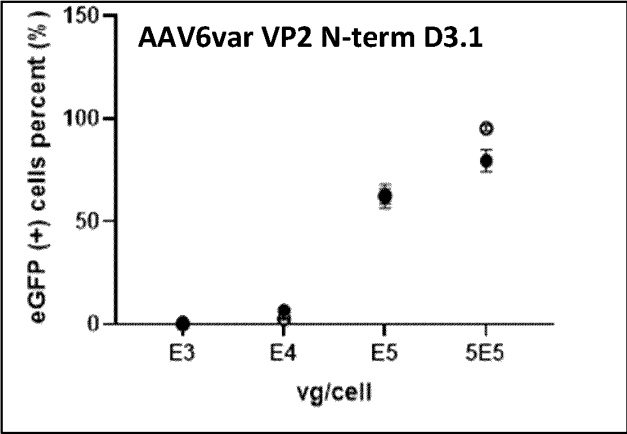
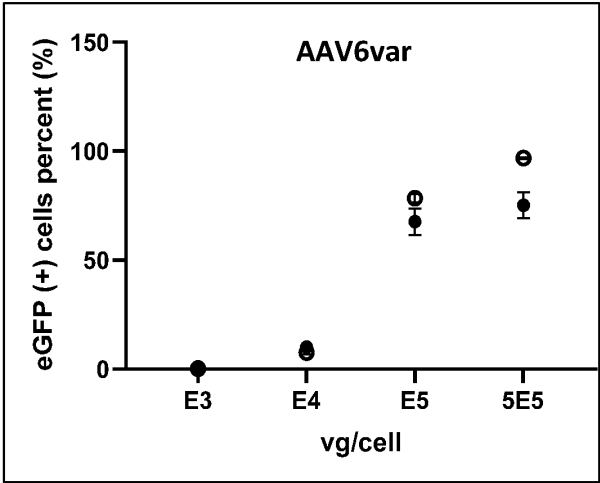


Fig. 22B



● HEK-Target  
○ HEK-WT control

FIGURE 23

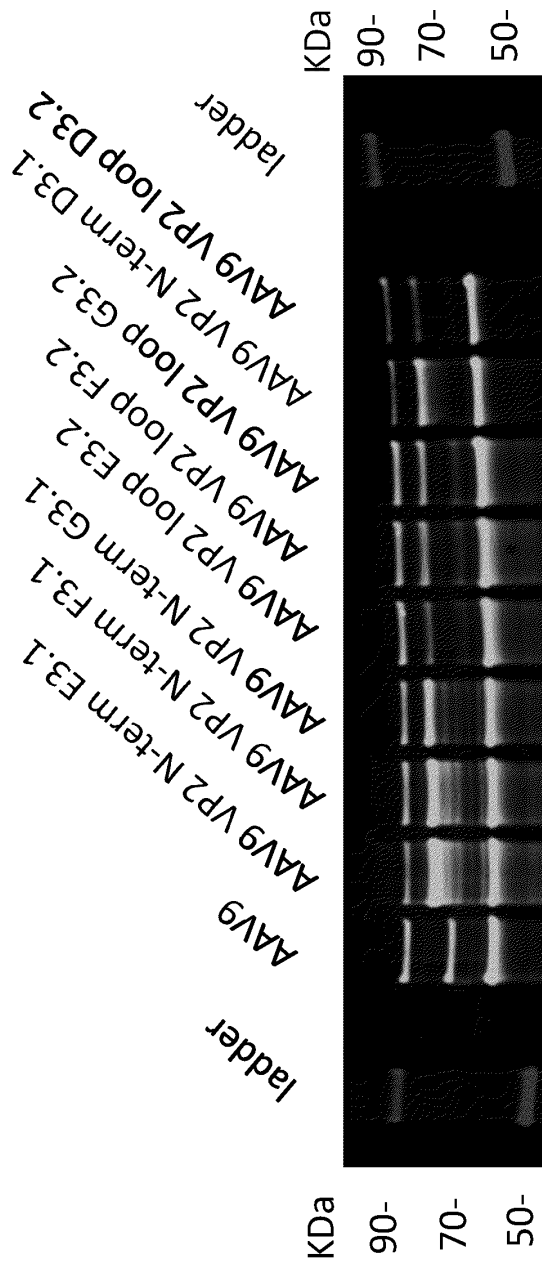


FIGURE 24

