

FIGURE 1

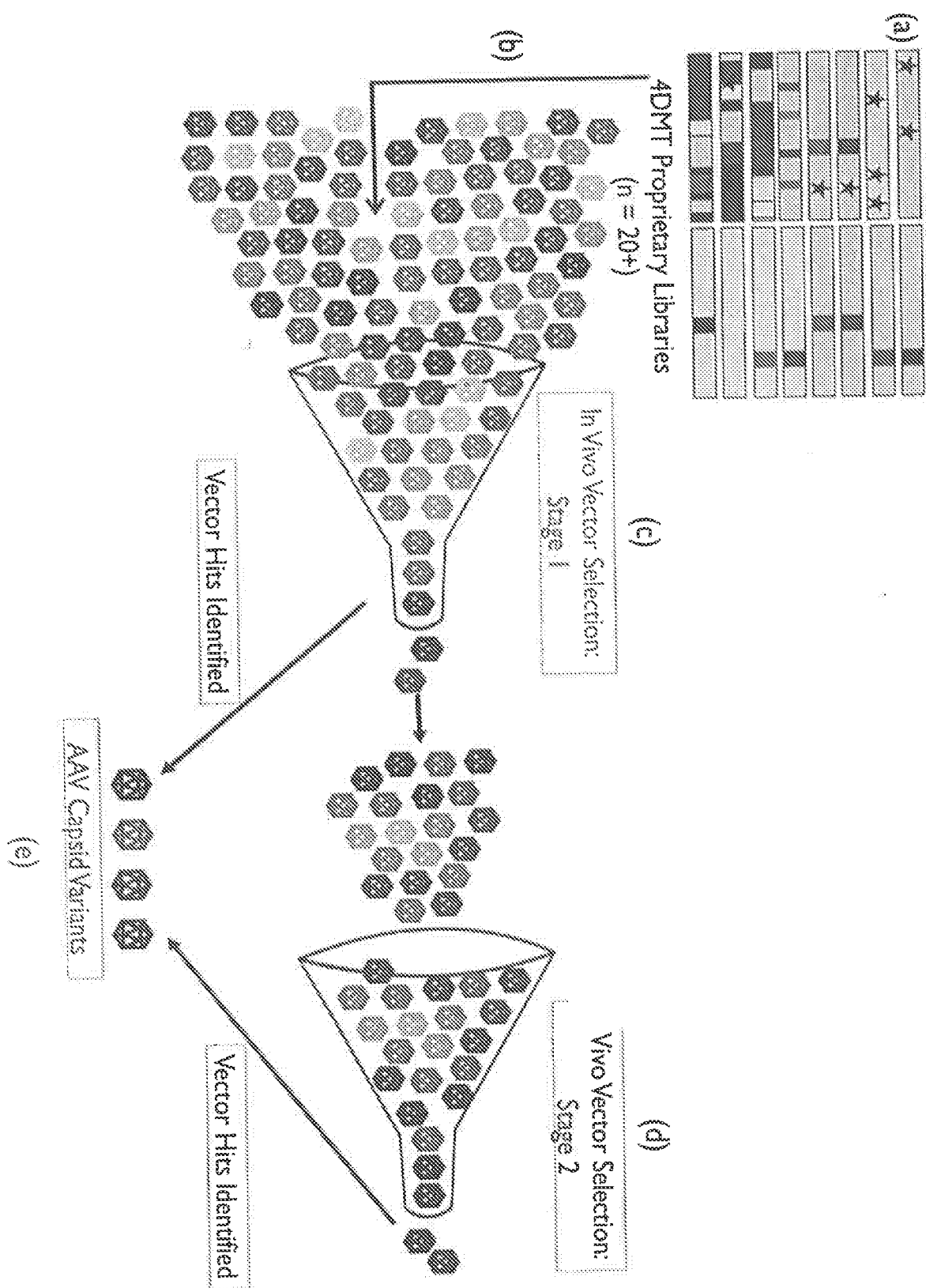


FIGURE 2

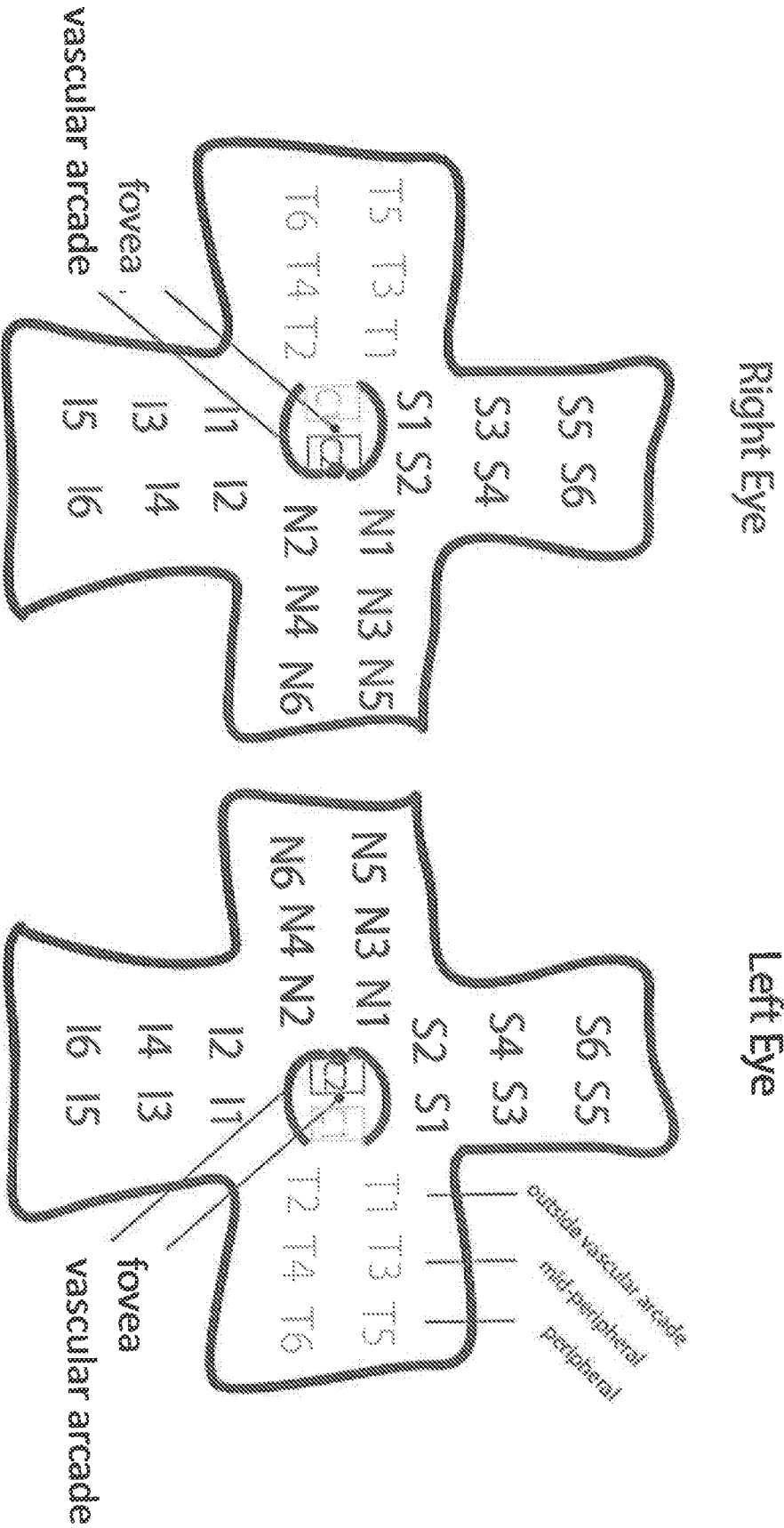


FIGURE 3

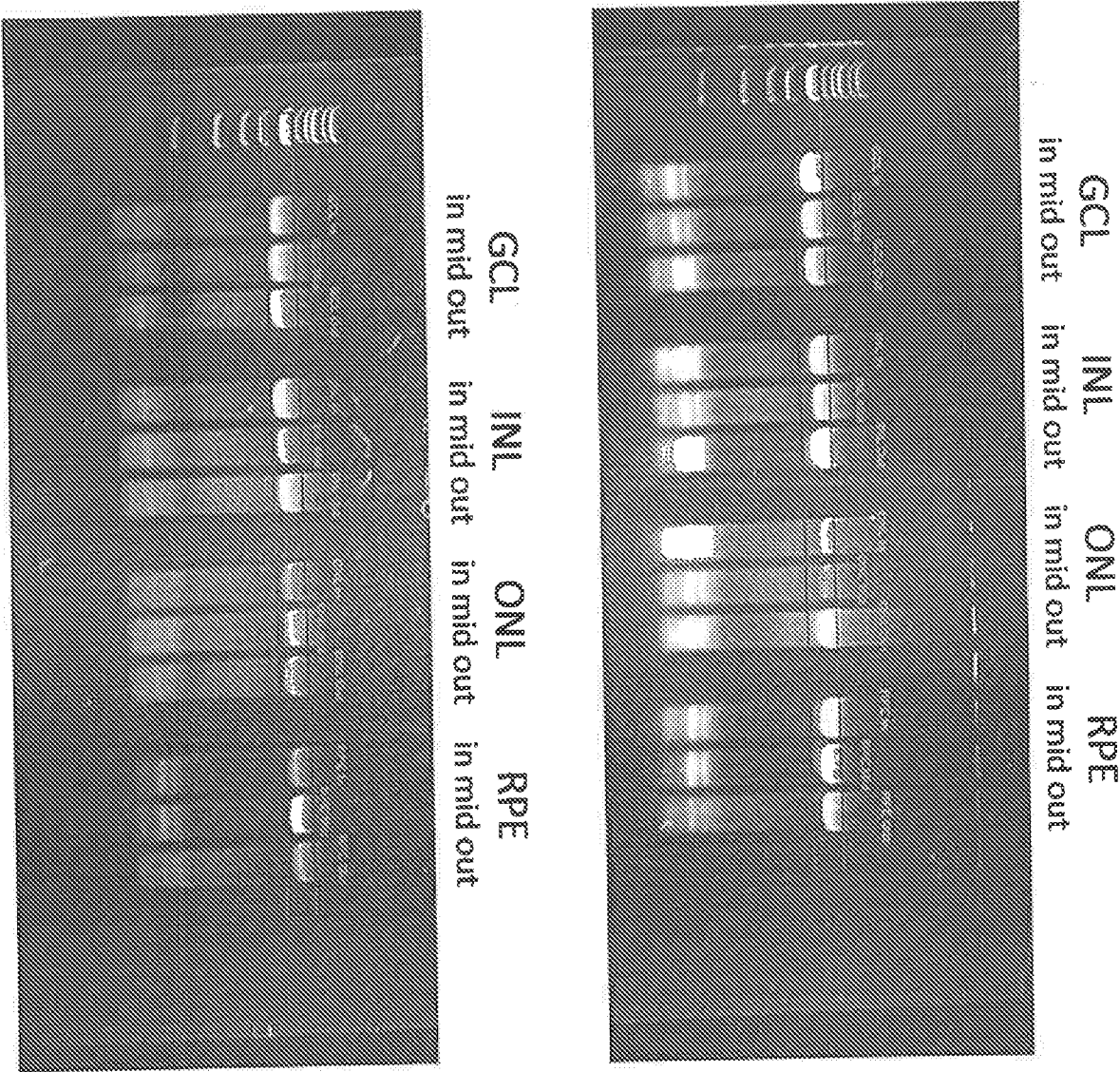


FIGURE 4

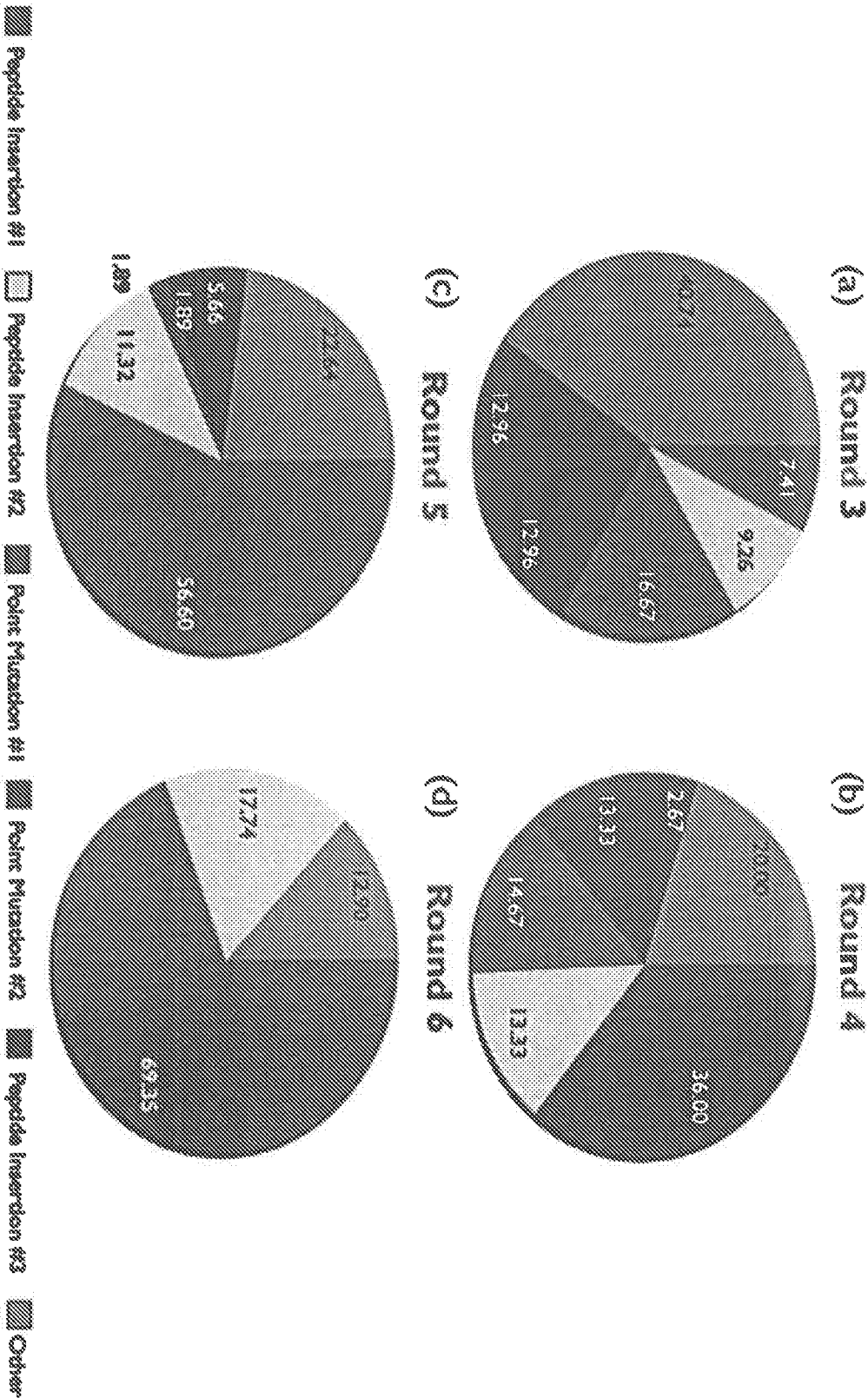


FIGURE 5

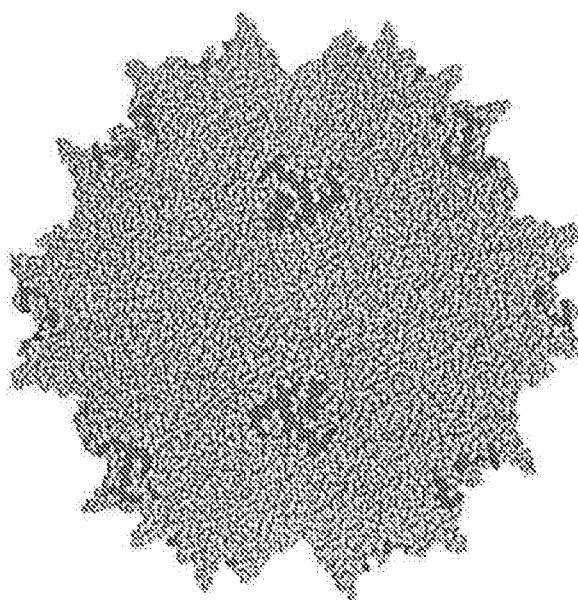


FIGURE 6

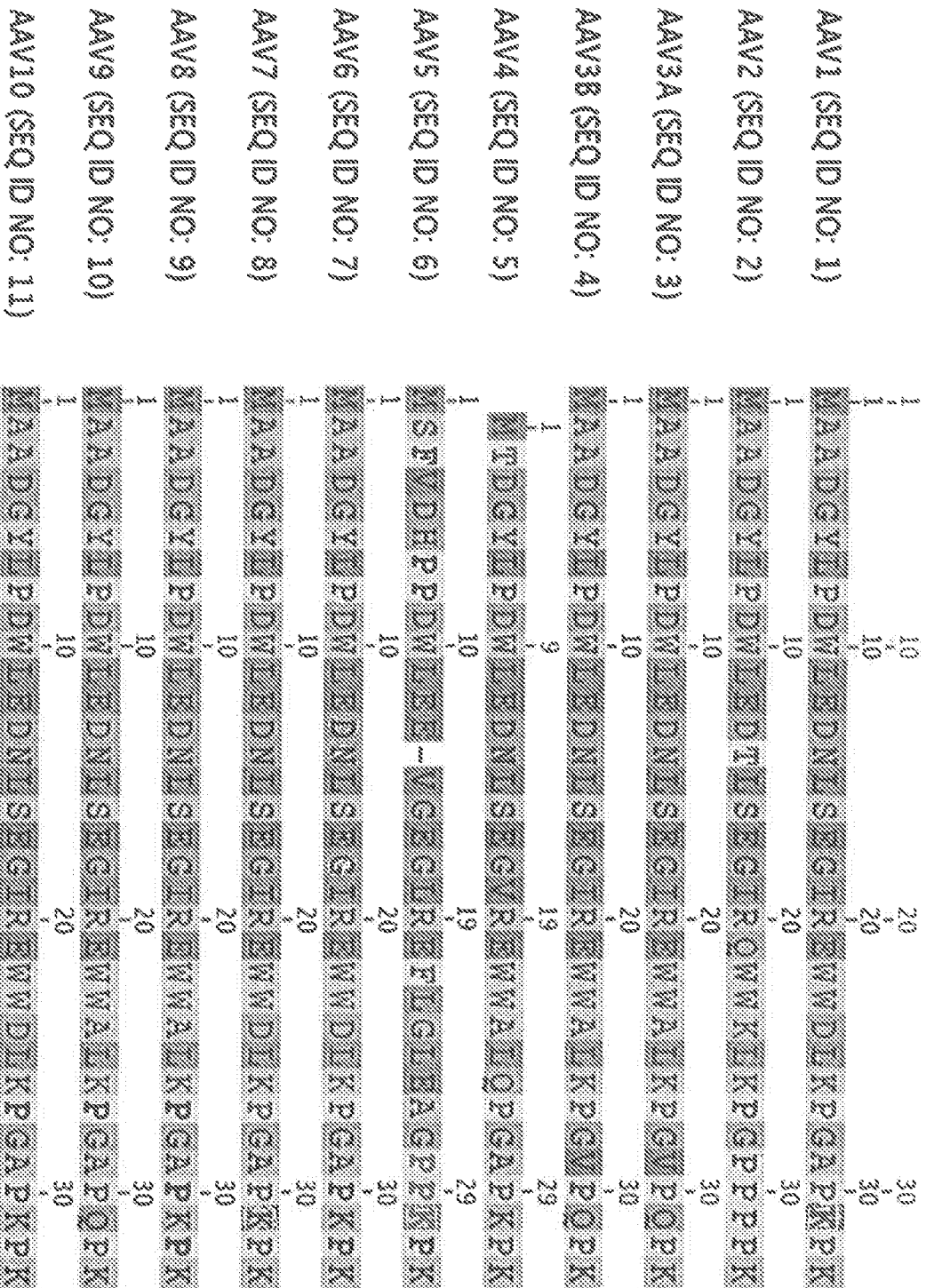


FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	40 1 A 40 1 N 50 1 P 50 1 G 60 1 F 60 1 N 1 G 2 Y 3 K 4 Y 5 L 6 G 7 P 8 F 9 N 10 G 11 L 12 D 13 K 14 G 15 E 16 P 17 P 18 N
AAV2 (SEQ ID NO: 2)	40 1 P 40 1 A 50 1 P 50 1 G 60 1 F 60 1 N 1 G 2 Y 3 K 4 Y 5 L 6 G 7 P 8 F 9 N 10 G 11 L 12 D 13 K 14 G 15 E 16 P 17 P 18 N
AAV3A (SEQ ID NO: 3)	40 1 A 40 1 N 50 1 P 50 1 G 60 1 F 60 1 N 1 G 2 Y 3 K 4 Y 5 L 6 G 7 P 8 F 9 N 10 G 11 L 12 D 13 K 14 G 15 E 16 P 17 P 18 N
AAV3B (SEQ ID NO: 4)	39 1 A 39 1 N 49 1 P 49 1 G 59 1 F 59 1 N 1 G 2 Y 3 K 4 Y 5 L 6 G 7 P 8 F 9 N 10 G 11 L 12 D 13 K 14 G 15 E 16 P 17 P 18 N
AAV4 (SEQ ID NO: 5)	39 1 A 39 1 N 49 1 P 49 1 G 59 1 F 59 1 N 1 G 2 Y 3 K 4 Y 5 L 6 G 7 P 8 F 9 N 10 G 11 L 12 D 13 K 14 G 15 E 16 P 17 P 18 N
AAV5 (SEQ ID NO: 6)	40 1 P 40 1 N 50 1 P 50 1 G 60 1 F 60 1 N 1 G 2 Y 3 K 4 Y 5 L 6 G 7 P 8 F 9 N 10 G 11 L 12 D 13 K 14 G 15 E 16 P 17 P 18 N
AAV6 (SEQ ID NO: 7)	40 1 A 40 1 N 50 1 P 50 1 G 60 1 F 60 1 N 1 G 2 Y 3 K 4 Y 5 L 6 G 7 P 8 F 9 N 10 G 11 L 12 D 13 K 14 G 15 E 16 P 17 P 18 N
AAV7 (SEQ ID NO: 8)	40 1 A 40 1 N 50 1 P 50 1 G 60 1 F 60 1 N 1 G 2 Y 3 K 4 Y 5 L 6 G 7 P 8 F 9 N 10 G 11 L 12 D 13 K 14 G 15 E 16 P 17 P 18 N
AAV8 (SEQ ID NO: 9)	40 1 A 40 1 N 50 1 P 50 1 G 60 1 F 60 1 N 1 G 2 Y 3 K 4 Y 5 L 6 G 7 P 8 F 9 N 10 G 11 L 12 D 13 K 14 G 15 E 16 P 17 P 18 N
AAV9 (SEQ ID NO: 10)	40 1 A 40 1 N 50 1 P 50 1 G 60 1 F 60 1 N 1 G 2 Y 3 K 4 Y 5 L 6 G 7 P 8 F 9 N 10 G 11 L 12 D 13 K 14 G 15 E 16 P 17 P 18 N
AAV10 (SEQ ID NO: 11)	40 1 A 40 1 N 50 1 P 50 1 G 60 1 F 60 1 N 1 G 2 Y 3 K 4 Y 5 L 6 G 7 P 8 F 9 N 10 G 11 L 12 D 13 K 14 G 15 E 16 P 17 P 18 N

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	70	80	90
AAV2 (SEQ ID NO: 2)	70	80	90
AAV3A (SEQ ID NO: 3)	70	80	90
AAV3B (SEQ ID NO: 4)	69	79	89
AAV4 (SEQ ID NO: 5)	69	79	89
AAV5 (SEQ ID NO: 6)	70	80	90
AAV6 (SEQ ID NO: 7)	70	80	90
AAV7 (SEQ ID NO: 8)	70	80	90
AAV8 (SEQ ID NO: 9)	70	80	90
AAV9 (SEQ ID NO: 10)	70	80	90
AAV10 (SEQ ID NO: 11)	70	80	90

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	100	110	120	130
	FOERLEQEDTSFGGNLGRAVFOAKKRVLLEPLGLV			
AAV2 (SEQ ID NO: 2)	100	110	120	130
	FOERLEKEDTSFGGNLGRAVFOAKKRVLLEPLGLV			
AAV3A (SEQ ID NO: 3)	100	110	120	130
	FOERLEQEDTSFGGNLGRAVFOAKKRVLLEPLGLV			
AAV3B (SEQ ID NO: 4)	99	103	119	129
	FOERLEQEDTSFGGNLGRAVFOAKKRVLLEPLGLV			
AAV4 (SEQ ID NO: 5)	99	109	119	129
	FOERLEQEDTSFGGNLGRAVFOAKKRVLLEPLGLV			
AAV5 (SEQ ID NO: 6)	100	110	120	130
	FOERLEADDTSFGGNLGRAVFOAKKRVLLEPLGLV			
AAV6 (SEQ ID NO: 7)	100	110	120	130
	FOERLEQEDTSFGGNLGRAVFOAKKRVLLEPLGLV			
AAV7 (SEQ ID NO: 8)	100	110	120	130
	FOERLEQEDTSFGGNLGRAVFOAKKRVLLEPLGLV			
AAV8 (SEQ ID NO: 9)	100	110	120	130
	FOERLEQEDTSFGGNLGRAVFOAKKRVLLEPLGLV			
AAV9 (SEQ ID NO: 10)	100	110	120	130
	FOERLEKEDTSFGGNLGRAVFOAKKRVLLEPLGLV			
AAV10 (SEQ ID NO: 11)	100	110	120	130
	FOERLEQEDTSFGGNLGRAVFOAKKRVLLEPLGLV			

SUBSTITUTE SHEET (RULE 26)

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	QPAKKRLNFGQTGDS ¹⁶⁹ ES ¹⁷⁰ VPDPQPLGEP ¹⁷⁹ PAAP ¹⁸⁰ TP ¹⁸⁹ ---
AAV2 (SEQ ID NO: 2)	QPAKKRLNFGQTGDA ¹⁶⁹ DS ¹⁷⁹ VPDPQPLGEP ¹⁸⁹ PAAP ¹⁸⁹ TP ¹⁸⁹ ---
AAV3A (SEQ ID NO: 3)	QPAKKRLNFGQTGDS ¹⁶⁹ ES ¹⁷⁹ VPDPQPLGEP ¹⁸⁹ PAAP ¹⁸⁹ TP ¹⁸⁹ ---
AAV3B (SEQ ID NO: 4)	QPAKKRLNFGQTGDS ¹⁶⁸ ES ¹⁷⁵ VPDPQPLGEP ¹⁸⁵ PAAP ¹⁸⁵ TP ¹⁸⁵ ---
AAV4 (SEQ ID NO: 5)	QPAKKKLV ¹⁶⁸ FE ¹⁶⁵ ---D ¹⁶⁸ ETGAGDGPPE ¹⁷⁸ GSTSGA ¹⁷⁸ ---
AAV5 (SEQ ID NO: 6)	KPS ¹⁶⁹ ---SSDA ¹⁷⁹ EAGPSSG ¹⁸⁹ QQLQ ¹⁸⁹ TPAQPAS ¹⁸⁹
AAV6 (SEQ ID NO: 7)	QPAKKRLNFGQTGDS ¹⁷⁰ ES ¹⁸⁰ VPDPQPLGEP ¹⁹⁰ PAAP ¹⁹⁰ TP ¹⁹⁰ ---
AAV7 (SEQ ID NO: 8)	QPAKKRLNFGQTGDS ¹⁷⁰ ES ¹⁸⁰ VPDPQPLGEP ¹⁹⁰ PAAP ¹⁹⁰ TP ¹⁹⁰ ---
AAV8 (SEQ ID NO: 9)	QPAKKRLNFGQTGDS ¹⁶⁹ ES ¹⁷⁹ VPDPQPLGEP ¹⁸⁹ PAAP ¹⁸⁹ TP ¹⁸⁹ ---
AAV9 (SEQ ID NO: 10)	QPAKKRLNFGQTGDT ¹⁷⁰ ES ¹⁸⁰ VPDPQPLGEP ¹⁹⁰ PAAP ¹⁹⁰ TP ¹⁹⁰ ---
AAV10 (SEQ ID NO: 11)	QPAKKRLNFGQTGES ¹⁷⁰ ES ¹⁸⁰ VPDPQPLGEP ¹⁹⁰ PAAP ¹⁹⁰ TP ¹⁹⁰ ---

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	200	210	220	230
	198	208	218	228
AAV2 (SEQ ID NO: 2)	198	208	218	228
AAV3A (SEQ ID NO: 3)	198	208	218	228
AAV3B (SEQ ID NO: 4)	193	203	212	222
AAV4 (SEQ ID NO: 5)	188	198	208	218
AAV5 (SEQ ID NO: 6)	198	208	218	228
AAV6 (SEQ ID NO: 7)	199	209	219	229
AAV7 (SEQ ID NO: 8)	199	209	219	229
AAV8 (SEQ ID NO: 9)	198	208	218	228
AAV9 (SEQ ID NO: 10)	199	209	219	229
AAV10 (SEQ ID NO: 11)	199	209	219	229

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	240	250	260
CDS	TW	LGDR	VI
238	238	248	258
TT	STR	TWA	LP
TY	NN	HL	YK
QI	SS		
AAV2 (SEQ ID NO: 2)	238	248	258
CDS	TW	LGDR	VI
238	238	248	258
TT	STR	TWA	LP
TY	NN	HL	YK
QI	SS		
AAV3A (SEQ ID NO: 3)	238	248	258
CDS	QW	LGDR	VI
238	238	248	258
TT	STR	TWA	LP
TY	NN	HL	YK
QI	SS		
AAV3B (SEQ ID NO: 4)	232	242	252
CDS	QW	LGDR	VI
232	232	242	252
TT	STR	TWA	LP
TY	NN	HL	YK
QI	SS		
AAV4 (SEQ ID NO: 5)	228	238	248
CDS	TW	SEGH	VI
228	228	238	248
TT	STR	TWA	LP
TY	NN	HL	YK
QI	SS		
AAV5 (SEQ ID NO: 6)	238	248	258
CDS	TW	MGDR	VI
238	238	248	258
TK	STR	TWA	LP
SY	NN	HO	YK
QI	SS		
AAV6 (SEQ ID NO: 7)	239	249	259
CDS	TW	LGDR	VI
239	239	249	259
TT	STR	TWA	LP
TY	NN	HL	YK
QI	SS		
AAV7 (SEQ ID NO: 8)	239	249	259
CDS	TW	LGDR	VI
239	239	249	259
TT	STR	TWA	LP
TY	NN	HL	YK
QI	SS		
AAV8 (SEQ ID NO: 9)	238	248	258
CDS	TW	LGDR	VI
238	238	248	258
TT	STR	TWA	LP
TY	NN	HL	YK
QI	SS		
AAV9 (SEQ ID NO: 10)	239	249	259
CDS	QW	LGDR	VI
239	239	249	259
TT	STR	TWA	LP
TY	NN	HL	YK
QI	SS		
AAV10 (SEQ ID NO: 11)	239	249	259
CDS	TW	LGDR	VI
239	239	249	259
TT	STR	TWA	LP
TY	NN	HL	YK
QI	SS		

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	A--STGASNDNH ²⁶⁶ YFGYSTPWGY ²⁶⁷ FDENR ²⁷⁰ FHCH ²⁸⁰ FSP ²⁸⁷
AAV2 (SEQ ID NO: 2)	Q--SGASNDNH ²⁶⁶ YFGYSTPWGY ²⁷⁶ FDENR ²⁸⁶ FHCH ²⁸⁶ FSP ²⁸⁶
AAV3A (SEQ ID NO: 3)	Q--SGASNDNH ²⁶⁶ YFGYSTPWGY ²⁷⁶ FDENR ²⁸⁶ FHCH ²⁸⁶ FSP ²⁸⁶
AAV3B (SEQ ID NO: 4)	Q--SGASNDNH ²⁵⁷ YFGYSTPWGY ²⁶⁷ FDENR ²⁷⁷ FHCH ²⁷⁷ FSP ²⁷⁷
AAV4 (SEQ ID NO: 5)	-----S ²⁵⁸ LOSNTYNGFSTPWGY ²⁶⁷ FDENR ²⁷⁷ FHCH ²⁷⁷ FSP ²⁷⁷
AAV5 (SEQ ID NO: 6)	GS ²⁶⁷ VDG--S ²⁶⁷ NANAYFGYSTPWGY ²⁷⁷ FDENR ²⁸⁷ FHSH ²⁸⁷ WSP ²⁸⁷
AAV6 (SEQ ID NO: 7)	A--STGASNDNH ²⁶⁸ YFGYSTPWGY ²⁷⁸ FDENR ²⁸⁸ FHCH ²⁸⁸ FSP ²⁸⁸
AAV7 (SEQ ID NO: 8)	E--TAGSTNDNTYFGYSTPWGY ²⁶⁹ FDENR ²⁷⁹ FHCH ²⁸⁹ FSP ²⁸⁹
AAV8 (SEQ ID NO: 9)	GTS ²⁶⁸ GGA ²⁶⁸ TNDNTYFGYSTPWGY ²⁷⁸ FDENR ²⁸⁸ FHCH ²⁸⁸ FSP ²⁸⁸
AAV9 (SEQ ID NO: 10)	STS ²⁶⁹ GGSNDNAYFGYSTPWGY ²⁷⁹ FDENR ²⁸⁹ FHCH ²⁸⁹ FSP ²⁸⁹
AAV10 (SEQ ID NO: 11)	GTS ²⁶⁹ GGS ²⁶⁹ TNDNTYFGYSTPWGY ²⁷⁹ FDENR ²⁸⁹ FHCH ²⁸⁹ FSP ²⁸⁹

SUBSTITUTE SHEET (RULE 26)

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	DGTTTIANNTTSTVQVFSDSEYQHPYVLGSAHQ	336	340	350	360
			337	347	357
AAV2 (SEQ ID NO: 2)	DGTTTIANNTTSTVQVFSDSEYQHPYVLGSAHQ	336		346	356
		336		346	356
AAV3A (SEQ ID NO: 3)	DGTTTIANNTTSTVQVFSDSEYQHPYVLGSAHQ	336		346	356
		336		346	356
AAV3B (SEQ ID NO: 4)	DGTTTIANNTTSTVQVFSDSEYQHPYVLGSAHQ	327		337	347
		327		337	347
AAV4 (SEQ ID NO: 5)	DGTTTIANNTTSTVQVFSDSEYQHPYVLGSAHQ	327		337	347
		327		337	347
AAV5 (SEQ ID NO: 6)	DGTTTIANNTTSTVQVFSDSEYQHPYVLGSAHQ	337		347	357
		337		347	357
AAV6 (SEQ ID NO: 7)	DGTTTIANNTTSTVQVFSDSEYQHPYVLGSAHQ	338		348	358
		338		348	358
AAV7 (SEQ ID NO: 8)	DGTTTIANNTTSTVQVFSDSEYQHPYVLGSAHQ	339		349	359
		339		349	359
AAV8 (SEQ ID NO: 9)	DGTTTIANNTTSTVQVFSDSEYQHPYVLGSAHQ	338		348	358
		338		348	358
AAV9 (SEQ ID NO: 10)	DGTTTIANNTTSTVQVFSDSEYQHPYVLGSAHQ	339		349	359
		339		349	359
AAV10 (SEQ ID NO: 11)	DGTTTIANNTTSTVQVFSDSEYQHPYVLGSAHQ				

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	370 367 360 377 390 385
AAV2 (SEQ ID NO: 2)	366 376 384
AAV3A (SEQ ID NO: 3)	366 376 384
AAV3B (SEQ ID NO: 4)	357 367 377
AAV4 (SEQ ID NO: 5)	357 367 377
AAV5 (SEQ ID NO: 6)	367 377 385
AAV6 (SEQ ID NO: 7)	368 378 386
AAV7 (SEQ ID NO: 8)	369 379 387
AAV8 (SEQ ID NO: 9)	368 378 386
AAV9 (SEQ ID NO: 10)	369 379 387
AAV10 (SEQ ID NO: 11)	

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	400	410	420
SSFYCLLEYPSONMIRTGNNFTFSYTFEEDVPFHS	394	404	414
AAV2 (SEQ ID NO: 2)	393	403	413
SSFYCLLEYPSONMIRTGNNFTFSYTFEEDVPFHS	393	403	413
AAV3A (SEQ ID NO: 3)	393	403	413
SSFYCLLEYPSONMIRTGNNFTFSYTFEEDVPFHS	393	403	413
AAV3B (SEQ ID NO: 4)	387	397	407
SSFYCLLEYPSONMIRTGNNFTFSYTFEEDVPFHS	387	397	407
AAV4 (SEQ ID NO: 5)	386	396	406
NAFYCLLEYPSONMIRTGNNFTFSYTFEEDVPFHS	386	396	406
AAV5 (SEQ ID NO: 6)	394	404	414
SSFYCLLEYPSONMIRTGNNFTFSYTFEEDVPFHS	394	404	414
AAV6 (SEQ ID NO: 7)	395	405	415
SSFYCLLEYPSONMIRTGNNFTFSYTFEEDVPFHS	395	405	415
AAV7 (SEQ ID NO: 8)	396	406	416
SSFYCLLEYPSONMIRTGNNFTFSYTFEEDVPFHS	396	406	416
AAV8 (SEQ ID NO: 9)	395	405	415
SSFYCLLEYPSONMIRTGNNFTFSYTFEEDVPFHS	395	405	415
AAV9 (SEQ ID NO: 10)	396	406	416
SSFYCLLEYPSONMIRTGNNFTFSYTFEEDVPFHS	396	406	416
AAV10 (SEQ ID NO: 11)			
SSFYCLLEYPSONMIRTGNNFTFSYTFEEDVPFHS			

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	430	440	450	460
SYAHSQSLDRIMNPLIDQYLYLNRTQNO--SGS	424	434	444	454
AAV2 (SEQ ID NO: 2)	423	433	443	453
SYAHSQSLDRIMNPLIDQYLYLSRT--NTPSGT	423	433	443	453
AAV3A (SEQ ID NO: 3)	423	433	443	453
SYAHSQSLDRIMNPLIDQYLYLNRTQGTSGT	423	433	443	453
AAV38 (SEQ ID NO: 4)	417	427	437	447
SYAHSQSLDRIMNPLIDQYLYLNRTQGTSGT	417	427	437	447
AAV4 (SEQ ID NO: 5)	416	426	436	446
SYAHSQSLDRIMNPLIDQYLYLNRTQGTSGT	416	426	436	446
AAV5 (SEQ ID NO: 6)	424	434	444	454
SFAPSQSLDRIMNPLIDQYLYLNRTQNO--SGS	424	434	444	454
AAV6 (SEQ ID NO: 7)	425	435	445	455
SYAHSQSLDRIMNPLIDQYLYLNRTQNO--SGS	425	435	445	455
AAV7 (SEQ ID NO: 8)	426	436	446	456
SYAHSQSLDRIMNPLIDQYLYLNRTQNO--SGS	426	436	446	456
AAV8 (SEQ ID NO: 9)	425	435	445	455
SYAHSQSLDRIMNPLIDQYLYLNRTQNO--SGS	425	435	445	455
AAV9 (SEQ ID NO: 10)	426	436	446	456
SYAHSQSLDRIMNPLIDQYLYLNRTQNO--SGS	426	436	446	456
AAV10 (SEQ ID NO: 11)	426	436	446	456
SYAHSQSLDRIMNPLIDQYLYLNRTQNO--SGS	426	436	446	456

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	470	480	490
463	473	483	
AQNKDILFSRGSFACNSVQPKNWLPGPCYRQQR			
462	472	482	
TTQSRILFSQAGASDIRDQSRNWLPGPCYRQQR			
463	473	483	
TNQSRLFSQAGPQSMSTQARNWLPGPCYRQQR			
463	473	483	
TNQSRLFSQAGPQSMSTQARNWLPGPCYRQQR			
457	467	477	
AGTATTNFTKRRPTMFSNFKKNWLPGPSIKQGG			
449	459	469	
-----NQFNKNHAGRYANTYKNWLPGPSIGRTGG			
463	473	483	
AQNKDILFSRGSFACNSVQPKNWLPGPCYRQQR			
465	475	485	
AGNRELQFYGGGPTMAEQAKNWLPGPCYRQQR			
465	475	485	
ANTQTIGFSQGGPNTMANQAKNWLPGPCYRQQR			
463	473	483	
QNGQTIKFSYAGPSNMAWQGRNYLPGPSYRQQR			
465	475	485	
OGTQQLLFSQAGPANMSAQAKNWLPGPCYRQQR			

FIGURE 6 (cont'd)

	500	510	520
	493	498	508
AAV1 (SEQ ID NO. 1)	SKTITDN	NNSNFTWTGASKYHNGRDS	
	492	497	507
AAV2 (SEQ ID NO. 2)	SKTSA DN	NNSYSWTGA TKYHNGRDS	
	493	498	508
AAV3A (SEQ ID NO. 3)	SKTANDN	NNSNFPWTAASKYHNGRDS	
	493	498	508
AAV3B (SEQ ID NO. 4)	SKTANDN	NNSNFPWTAASKYHNGRDS	
	487	497	507
AAV4 (SEQ ID NO. 5)	SKTANON YKLPATGSDSLTKYHSTEDGRWS		
	479	484	494
AAV5 (SEQ ID NO. 6)	WNLGSGVNR	ASNSAFATNRHIEGASY	
	493	498	508
AAV6 (SEQ ID NO. 7)	SKTKTDN	NNSNFTWTGASKYHNGRDS	
	495	500	510
AAV7 (SEQ ID NO. 8)	SKTLDON	NNSNFAWTGATKYHNGRDS	
	495	500	510
AAV8 (SEQ ID NO. 9)	STTPGON	NNSNFAWTA GTKYHNGRDS	
	493	498	508
AAV9 (SEQ ID NO. 10)	STPTON	NNSFAWPGA SSWALNGRDS	
	495	500	510
AAV10 (SEQ ID NO. 11)	STTSON	NNSNFAWTGATKYHNGRDS	

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	530	540	550	560
518	528	538	547	
TINPGTAMASHKDDDEEKFFP	527	537	546	GKESAA
517				
LVNPGPAMASHKDDDEEKFFP	528	538	547	GKQGS
518				
LVNPGPAMASHKDDDEEKFFP	528	538	547	GKEGT
518				
LVNPGPAMASHKDDDEEKFFP	527	535	545	GKEGT
517				
ALTTPGPFAATAGPADSKF--	514	524	534	KQN
504				
QPPQPNGMTINNLOGSNTYA	528	538	547	ENTMIFNSQPAN
518				
TINPGTAMASHKDDDKDKFFP	530	540	549	GKESAA
520				
LVNPGVAMATHKDDDEDRFFP	530	540	549	GKQGA
520				
LVNPGIAMAATHKDDDEDRFFP	528	538	547	GKQNA
518				
LVNPGPAMASHKDEGDRFFP	530	540	549	GKQGT
520				
LVNPGVAMATHKDDDEDRFFP				GKQGA
520				

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	570	580	590
GASNTALE	DNVMTTDEEETIKATNPVATERRFGT		
AAV2 (SEQ ID NO: 2)	555	564	574
EKTNDIE	KVMTTDEEETIRTTNPVATHOYGS		
AAV3A (SEQ ID NO: 3)	556	565	575
TASNAEIL	DNVMTTDEEETIRTTNPVATHOYGT		
AAV3B (SEQ ID NO: 4)	556	565	575
TASNAEIL	DNVMTTDEEETIRTTNPVATHOYGT		
AAV4 (SEQ ID NO: 5)	554	563	573
GNTATVP	GTLFTSEEEIAATNATDTDMWGN		
AAV5 (SEQ ID NO: 6)	544	554	564
PCTTATYLEGNMTTSESETOPVNRVAYNGGO			
AAV6 (SEQ ID NO: 7)	556	565	575
GASNTAII	DNVMTTDEEETIKATNPVATERRFGT		
AAV7 (SEQ ID NO: 8)	557	566	576
TNKTTII	ENVMTTNEEETIRPTNPVATHEEYGT		
AAV8 (SEQ ID NO: 9)	558	567	577
ARDNADY	SDVMTTSEEEIKTTNPVATHEEYGT		
AAV9 (SEQ ID NO: 10)	556	565	575
GRDNVDA	DKVMTTNEEETIKTTNPVATHEEYGT		
AAV10 (SEQ ID NO: 11)	558	567	577
GRDNVDY	SSVMTTSEEEIKTTNPVATHEEYGT		

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	584	585	600	610	620
AAV2 (SEQ ID NO: 2)	583	584	585	595	605
AAV3A (SEQ ID NO: 3)	582	583	584	594	604
AAV3B (SEQ ID NO: 4)	581	582	583	593	603
AAV4 (SEQ ID NO: 5)	580	581	582	592	602
AAV5 (SEQ ID NO: 6)	579	580	581	591	601
AAV6 (SEQ ID NO: 7)	578	579	580	590	600
AAV7 (SEQ ID NO: 8)	577	578	579	589	599
AAV8 (SEQ ID NO: 9)	576	577	578	588	598
AAV9 (SEQ ID NO: 10)	575	576	577	587	597
AAV10 (SEQ ID NO: 11)	574	575	576	586	596

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	630 615	640 625	650 635	660 645
AAV2 (SEQ ID NO: 2)	614	624	634	644
AAV3A (SEQ ID NO: 3)	615	625	635	645
AAV3B (SEQ ID NO: 4)	613	623	633	643
AAV4 (SEQ ID NO: 5)	604	614	624	634
AAV5 (SEQ ID NO: 6)	615	625	635	645
AAV6 (SEQ ID NO: 7)	616	626	636	646
AAV7 (SEQ ID NO: 8)	617	627	637	647
AAV8 (SEQ ID NO: 9)	615	625	635	645
AAV9 (SEQ ID NO: 10)	617	627	637	647
AAV10 (SEQ ID NO: 11)				

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	QITIKNTPPANPPAETFSATKFASEITQYSTGG	670 655	680 665	690 675
AAV2 (SEQ ID NO: 2)	QITIKNTPPANPSTTFSAAKFASEITQYSTGG	654	664	674
AAV3A (SEQ ID NO: 3)	QINIKNTPPANPPTTFSPA KFASEITQYSTGG	655	665	675
AAV3B (SEQ ID NO: 4)	QINIKNTPPANPPTTFSPA KFASEITQYSTGG	653	663	673
AAV4 (SEQ ID NO: 5)	QIFIKNTPPANPATTFSSTPINSEITQYSTGG	644	653	663
AAV5 (SEQ ID NO: 6)	QMLIKNTPPEN~ITSFSDIPVSSFITQYSTGG	655	665	675
AAV6 (SEQ ID NO: 7)	QILIKNTPPANPPAEFSATKFASEITQYSTGG	656	666	676
AAV7 (SEQ ID NO: 8)	QILIKNTPPANPPETTPAKFASEITQYSTGG	657	667	677
AAV8 (SEQ ID NO: 9)	QILIKNTPPADPPTTFNQSKINSEITQYSTGG	655	665	675
AAV9 (SEQ ID NO: 10)	QITIKNTPPADPPTTFNKDKINSEITQYSTGG	657	667	677
AAV10 (SEQ ID NO: 11)	QITIKNTPPADPPTTFSAKFASEITQYSTGG			

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	700	710	720
AAV2 (SEQ ID NO: 2)	685	695	705
AAV3A (SEQ ID NO: 3)	684	694	704
AAV3B (SEQ ID NO: 4)	685	695	705
AAV4 (SEQ ID NO: 5)	683	693	703
AAV5 (SEQ ID NO: 6)	673	683	693
AAV6 (SEQ ID NO: 7)	686	696	706
AAV7 (SEQ ID NO: 8)	687	697	707
AAV8 (SEQ ID NO: 9)	685	695	705
AAV9 (SEQ ID NO: 10)	687	697	707
AAV10 (SEQ ID NO: 11)			

FIGURE 6 (cont'd)

AAV1 (SEQ ID NO: 1)	DFTYDNNGLYT ⁷³⁰ EP ⁷⁴⁰ PIGTRY ⁷⁵⁰ IT ⁷⁵² RP ⁷³⁷
AAV2 (SEQ ID NO: 2)	DFTYDNNGLYT ⁷¹⁴ EP ⁷²⁴ PIGTRY ⁷³⁶ IT ⁷³⁷ RP ⁷³⁶
AAV3A (SEQ ID NO: 3)	DETYD ⁷¹⁵ TNGWYS ⁷²⁵ EP ⁷²⁵ PIGTRY ⁷³⁶ IT ⁷³⁶ RP ⁷³⁶
AAV3B (SEQ ID NO: 4)	DETYD ⁷¹³ TNGWYS ⁷²³ EP ⁷²³ PIGTRY ⁷³⁵ IT ⁷³⁵ RP ⁷³⁵
AAV4 (SEQ ID NO: 5)	EWAPDAAGKYT ⁷⁰³ EP ⁷¹³ RAIGTRY ⁷²⁵ IT ⁷²⁵ TH ⁷²⁵ HL ⁷²⁵
AAV5 (SEQ ID NO: 6)	DEAPD ⁷¹⁵ STGEYR ⁷²⁵ IT ⁷²⁵ RP ⁷³⁷ IGTRY ⁷³⁷ IT ⁷³⁷ RP ⁷³⁷
AAV6 (SEQ ID NO: 7)	DETYD ⁷¹⁶ NNGLYT ⁷²⁶ EP ⁷²⁶ PIGTRY ⁷³⁸ IT ⁷³⁸ RP ⁷³⁸
AAV7 (SEQ ID NO: 8)	DEAVD ⁷¹⁷ DSGGVYS ⁷²⁷ EP ⁷²⁷ PIGTRY ⁷³⁹ IT ⁷³⁹ RP ⁷³⁹
AAV8 (SEQ ID NO: 9)	DEAVNT ⁷¹⁵ EGVYS ⁷²⁵ EP ⁷²⁵ PIGTRY ⁷³⁷ IT ⁷³⁷ RP ⁷³⁷
AAV9 (SEQ ID NO: 10)	DEAVNT ⁷¹⁷ EGVYS ⁷²⁷ EP ⁷²⁷ PIGTRY ⁷³⁸ IT ⁷³⁸ RP ⁷³⁸
AAV10 (SEQ ID NO: 11)	DEAVNT ⁷¹⁷ EGTYS ⁷²⁷ EP ⁷²⁷ PIGTRY ⁷³⁸ IT ⁷³⁸ RP ⁷³⁸

FIGURE 7

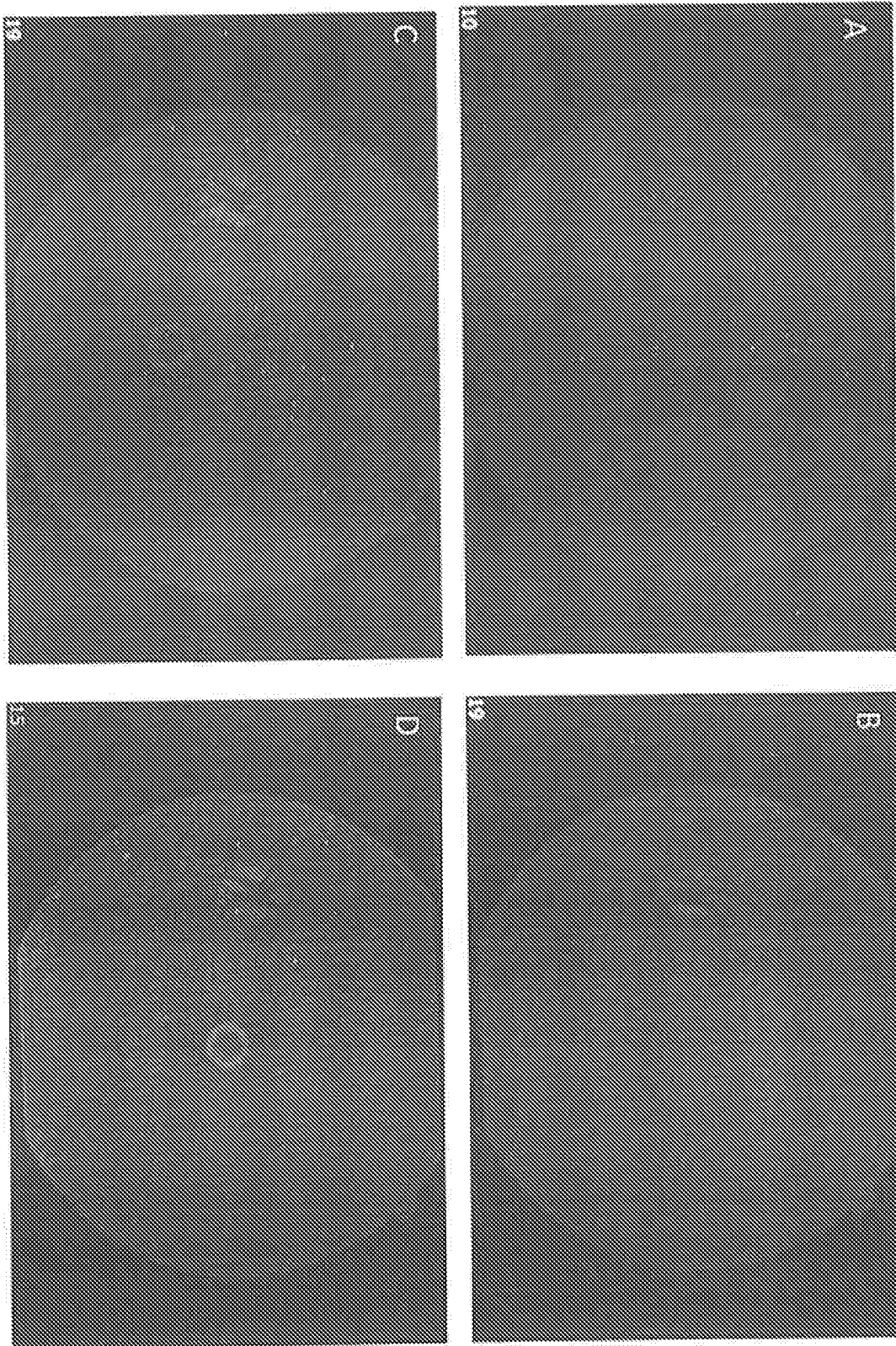


FIGURE 8

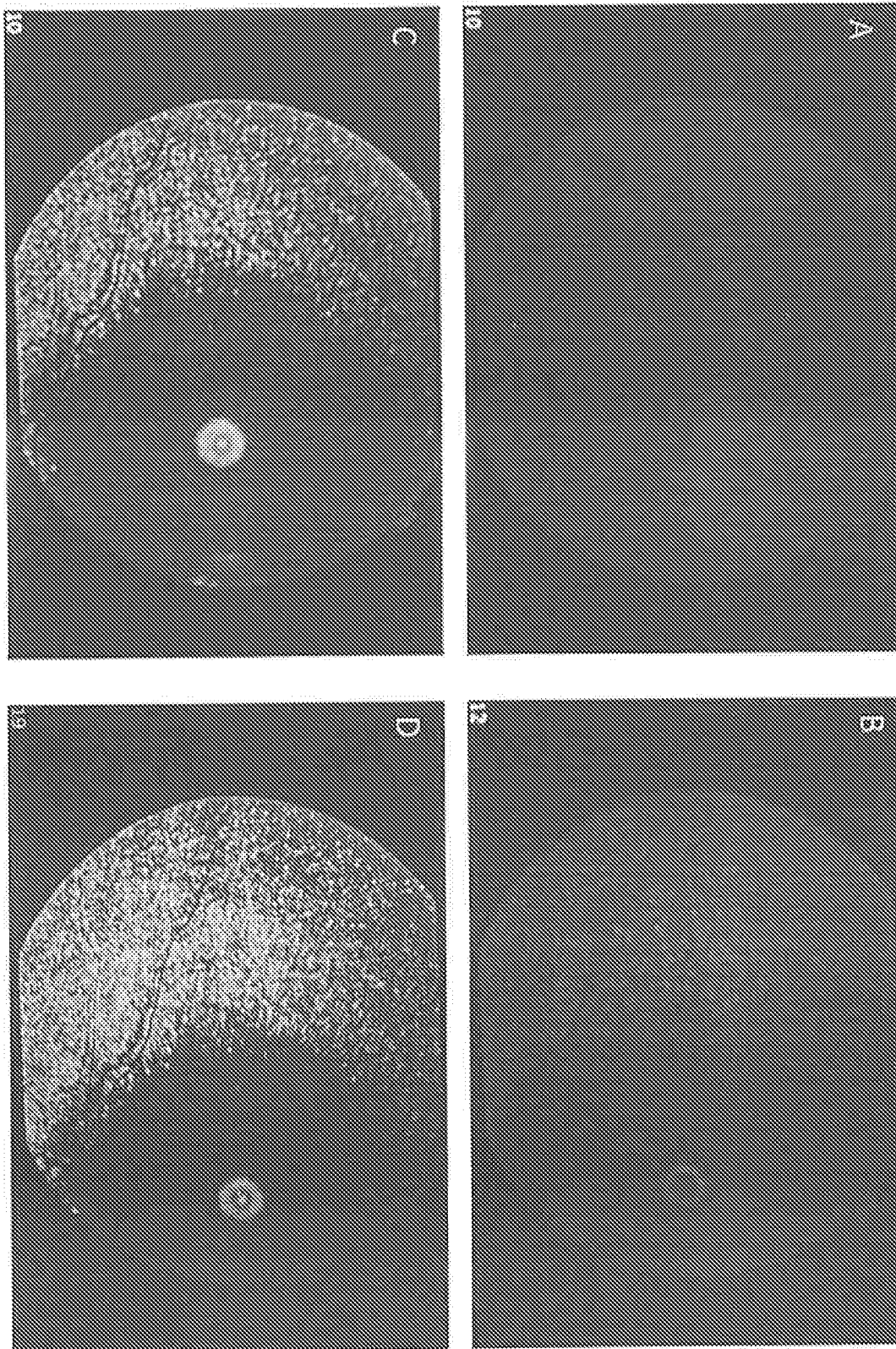


FIGURE 9

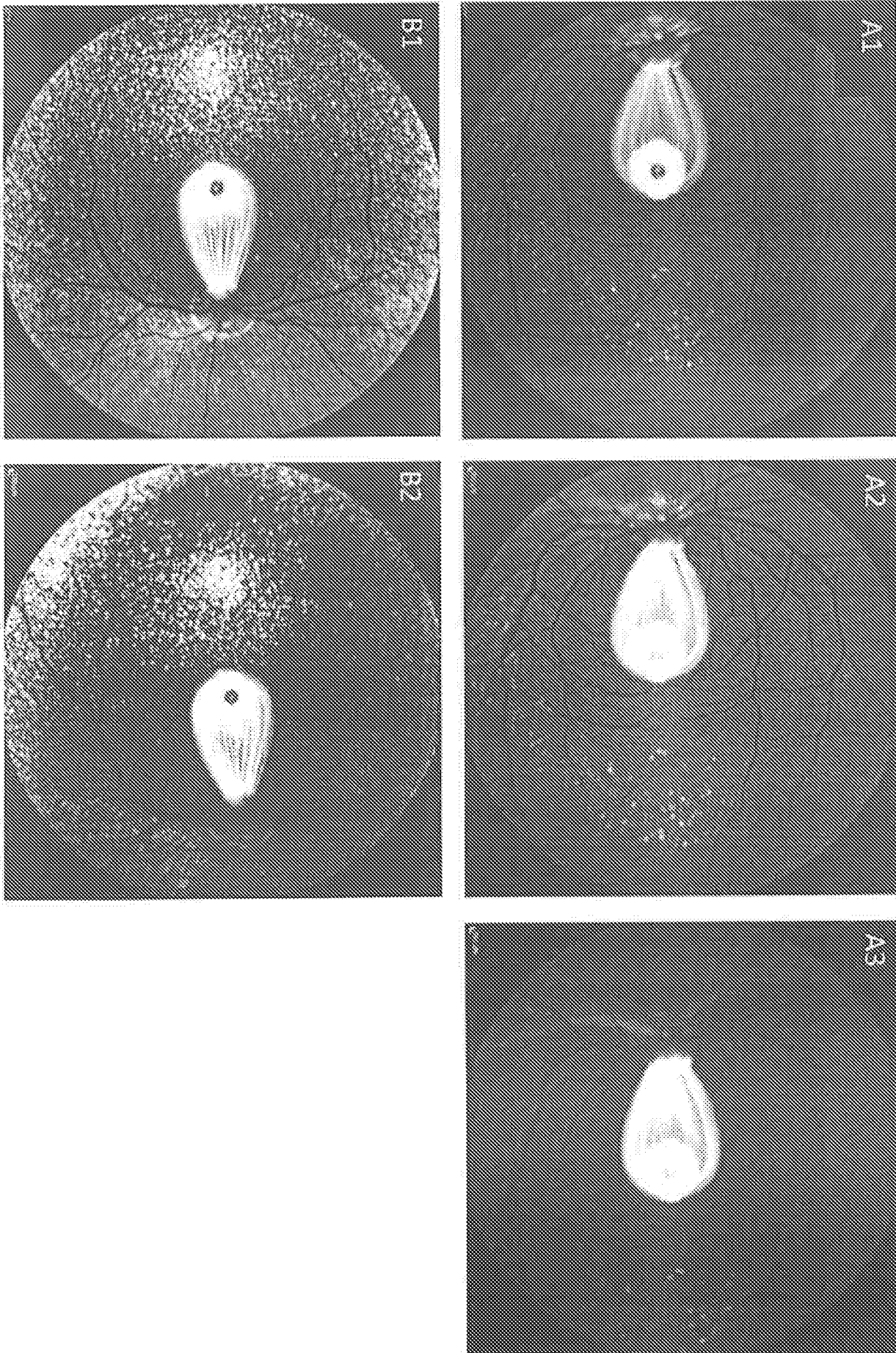


FIGURE 10A

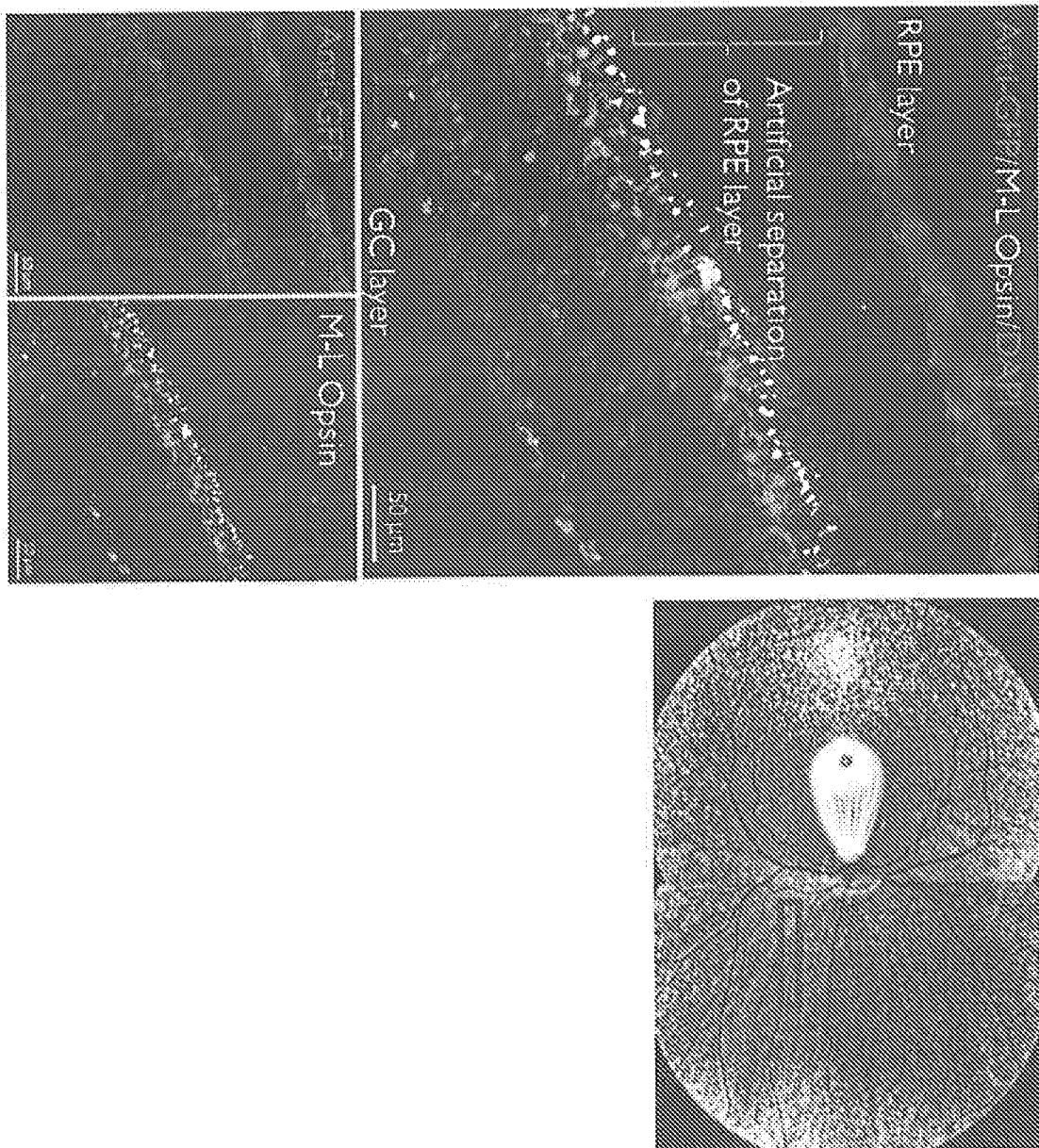


FIGURE 10B

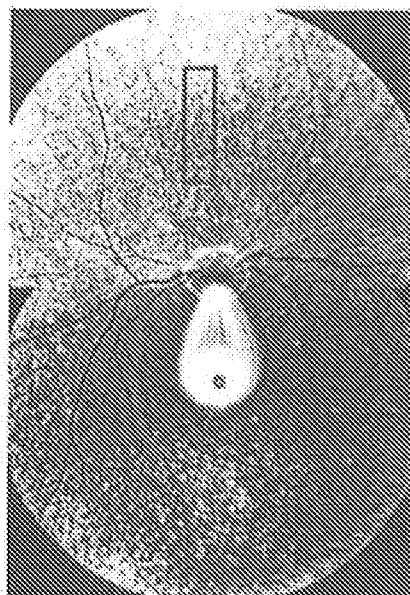
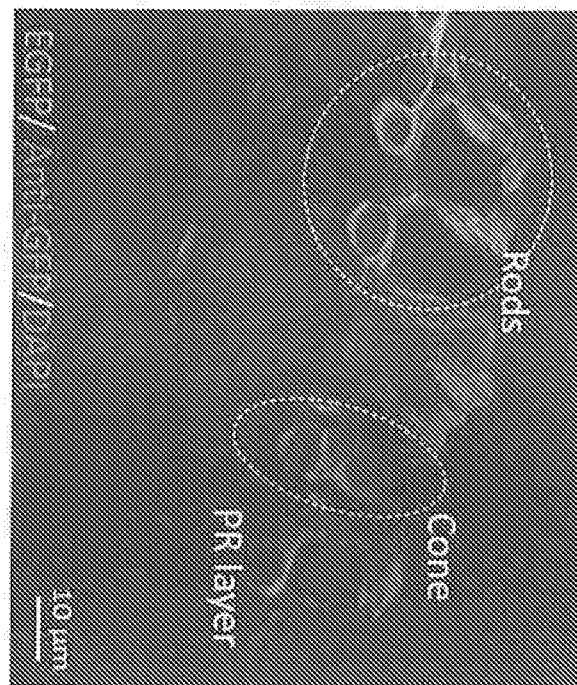


FIGURE 10C

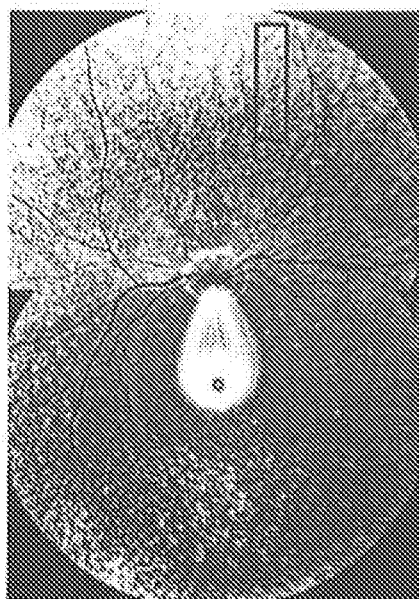
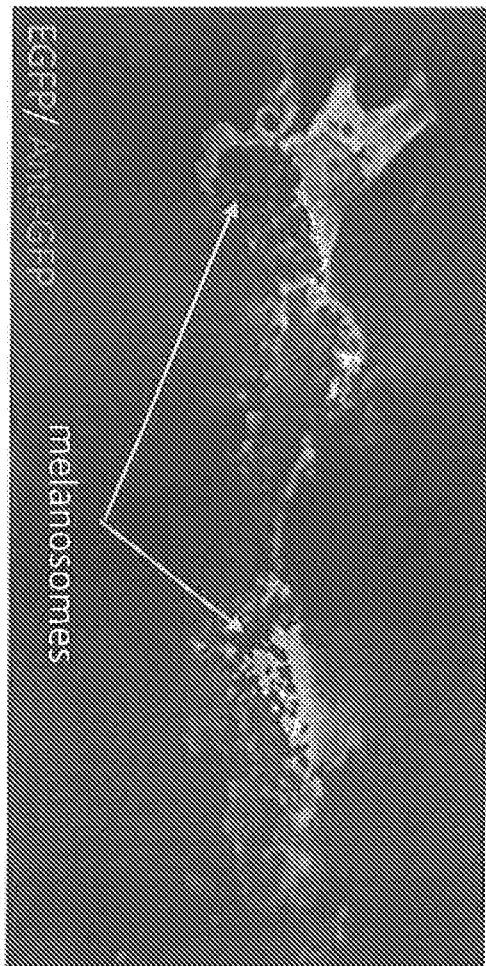


FIGURE 10D

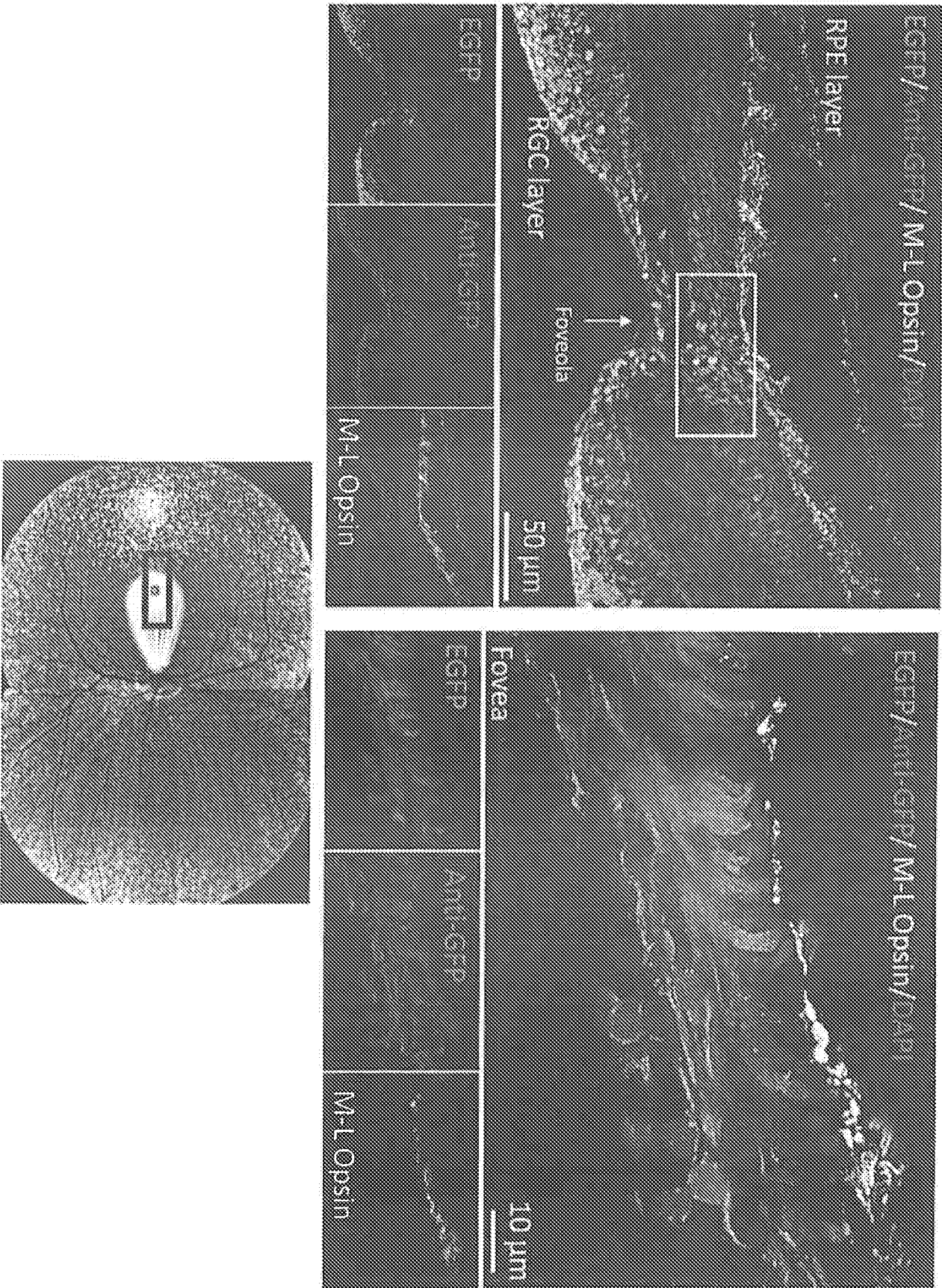


FIGURE 10E

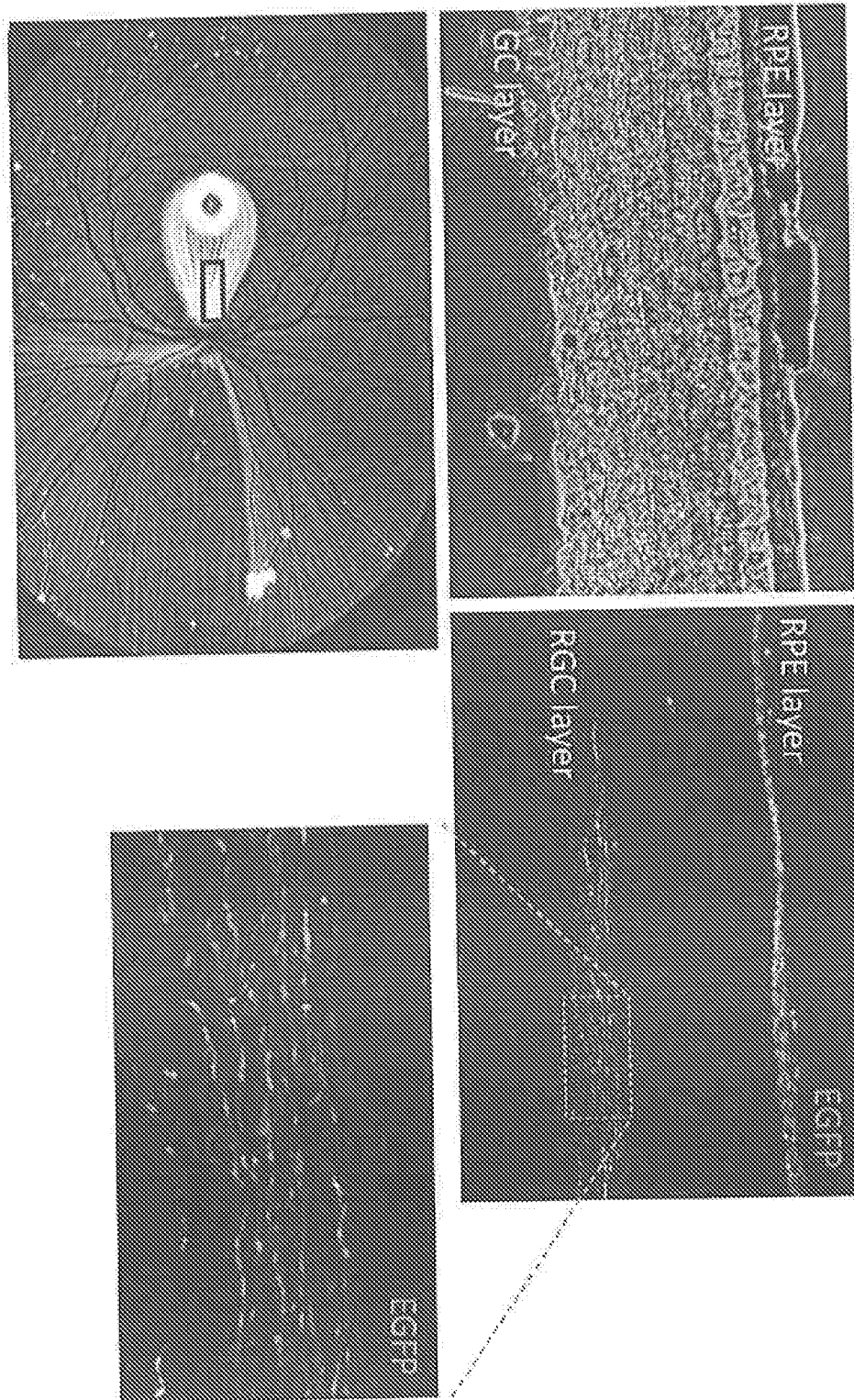


FIGURE 11A

Human ESC-derived RPEs

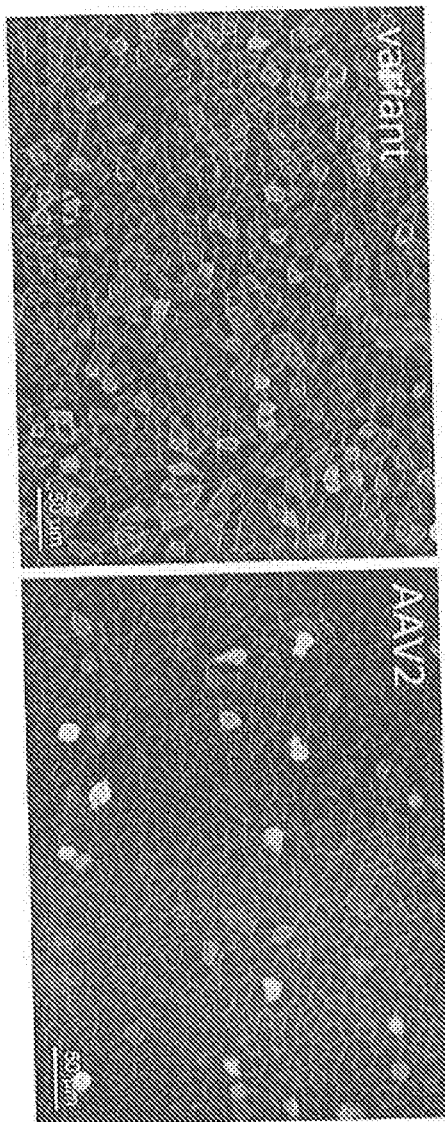
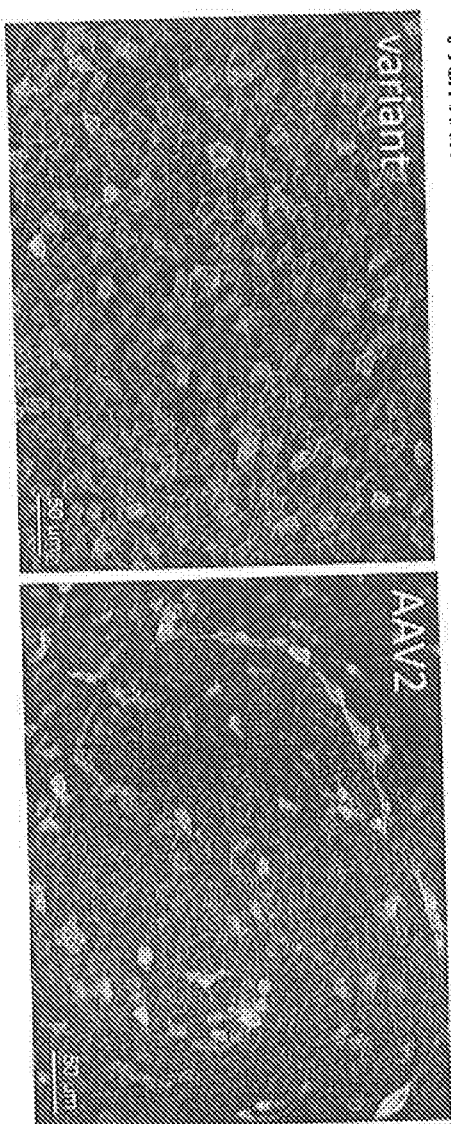


FIGURE 11B

Human FB-ipSC-derived RPEs



37/38

Figure 11C

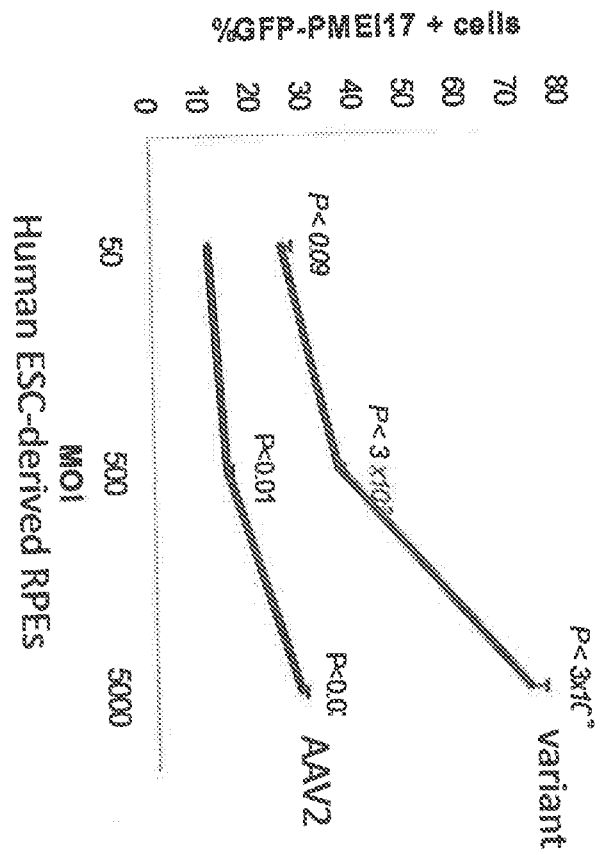
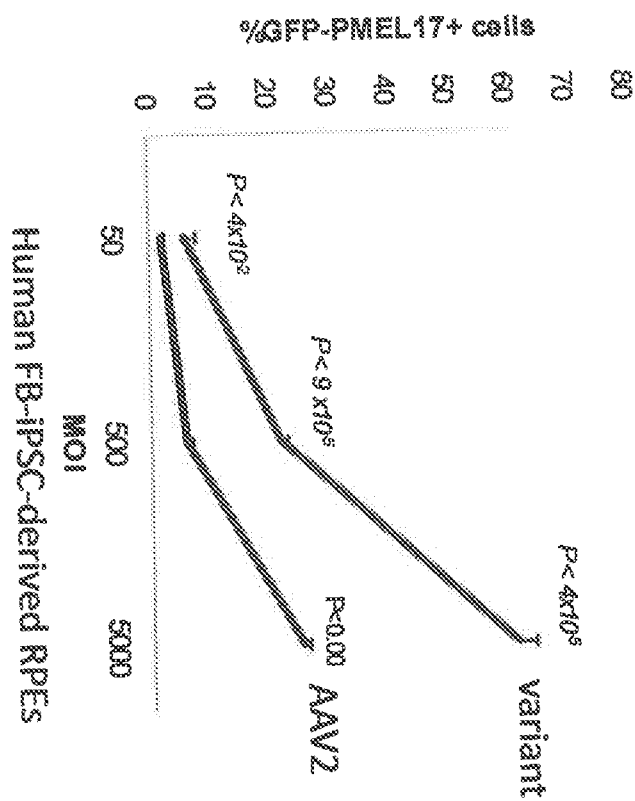


Figure 11D



Life Time

