

SEQUENCE LISTING

<110> OXFORD GENETICS LIMITED

<120> DNA AMPLIFICATION METHOD USING CARE ELEMENTS

<130> 489.150854/04

<160> 25

<170> PatentIn version 3.5

<210> 1

<211> 130

<212> DNA

<213> adeno-associated virus 2

<400> 1

gtcctgtatt agaggtcacg tgagtgtttt gcgacatttt gcgacaccat gtggtcacgc 60

tgggtattta agcccgagtg agcacgcagg gtctccattt tgaagcggga ggtttgaacg 120

cgcagccgcc 130

<210> 2

<211> 14

<212> DNA

<213> adeno-associated virus

<400> 2

aggtcacgtg agtg 14

<210> 3

<211> 16

<212> DNA

<213> adeno-associated virus

<400> 3

gcccgagtga gcacgc 16

<210> 4

<211> 16

<212> DNA

<213> adeno-associated virus

<400> 4

gagcgagcga gcgcgc 16

<210> 5

<211> 16

<212> DNA
 <213> adeno-associated virus

 <400> 5
 cagcgagcga gcgagc 16

 <210> 6
 <211> 175
 <212> DNA
 <213> adeno-associated virus 2

 <400> 6
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 gagtgagcac gcagggtctc cttttgaag cgggaggttt gaacgcgcag ccgcc 175

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 <211> 163
 <212> DNA
 <213> adeno-associated virus 2

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 cgagccgcc atgccggggt tttacgagat tgtgattaag gtc 163

 <210> 8
 <211> 45
 <212> DNA
 <213> adeno-associated virus 2

 <400> 8
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 <210> 9
 <211> 352
 <212> DNA
 <213> adeno-associated virus 2

 <400> 9
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 cgagccgcc atgccggggt tttacgagat tgtgattaag gtcccagcg accttgacga 180

gcatctgccc ggcatttctg acagctttgt gaactgggtg gccgagaagg aatgggagtt	240
gccgccagat tctgacatgg atctgaatct gattgagcag gcacccctga ccgtggccga	300
gaagctgcag cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc cg	352

<210> 10
 <211> 130
 <212> DNA
 <213> adeno-associated virus 2

<400> 10	
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cgcagccgcc	130

<210> 11
 <211> 397
 <212> DNA
 <213> adeno-associated virus 2

<400> 11	
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tcacgtgagt gttttgacgac attttgacgac accatgtggt cacgctgggt atttaagccc	120
gagtgagcac gcaggggtctc ctttttgaag cgggaggttt gaacgcgcag ccgccatgcc	180
ggggttttac gagattgtga ttaaggtccc cagcgacctt gacgagcatc tgcccggcat	240
ttctgacagc tttgtgaact ggggtggccga gaaggaatgg gagttgccgc cagattctga	300
catggatctg aatctgattg agcaggcacc cctgaccgtg gccgagaagc tgcagcgcga	360
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<210> 12
 <211> 208
 <212> DNA
 <213> adeno-associated virus 2

<400> 12	
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gagtgagcac gcaggggtctc ctttttgaag cgggaggttt gaacgcgcag ccgccatgcc	180
ggggttttac gagattgtga ttaaggtc	208

<210> 13
 <211> 1866
 <212> DNA
 <213> adeno-associated virus 2

<400> 13
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 caatttgaga agggagagag ctacttccac atgcacgtgc tcgtggaaac caccgggggtg 300
 aaatccatgg ttttgggacg tttcctgagt cagattcgcg aaaaactgat tcagagaatt 360
 taccgcggga tcgagccgac tttgccaaac tggttcgcg tcacaaagac cagaaatggc 420
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 aatctcacgg agcgtaaagc gttggtggcg cagcatctga cgcacgtgtc gcagacgcag 600
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 cagtggatcc aggaggacca ggcctcatal atctccttca atgcggcctc caactcgcg 780
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caatag	1866

<210> 14
 <211> 2559
 <212> DNA
 <213> adeno-associated virus 2

<400> 14	
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agagaatgaa tcagaattca aatatctgct tcactcacgg acagaaagac tgtttagagt	180
gctttcccggt gtcagaatct caaccggtt ctgtcgtcaa aaaggcgat cagaaactgt	240
gctacattca tcatatcatg ggaaaggtgc cagacgcttg cactgcctgc gatctggtca	300
atgtggattt ggatgactgc atctttgaac aataaatgat ttaaatacagg tatggctgcc	360
gatggttatc ttccagattg gctcaggac actctctctg aaggaataag acagtgggtg	420
aagctcaaac ctggcccacc accaccaaag cccgcagagc ggcataagga cgacagcagg	480
ggtcttgtgc ttctgggta caagtacctc ggacccttca acggactcga caaggagag	540
ccggtcaacg aggcagacgc cgcggccctc gagcacgaca aagcctacga ccggcagctc	600
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cttaaagaag atacgtcttt tgggggcaac ctcggacgag cagtcttcca ggcgaaaaag	720
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tcctcgggaa attggcattg cgattccaca tggatgggcg acagagtcac caccaccagc	1080
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2559

<210> 15

<211> 735

<212> PRT

<213> adeno-associated virus 2

<400> 15

Met Ala Ala Asp Gly Tyr Leu Pro Asp Trp Leu Glu Asp Thr Leu Ser
1 5 10 15

Glu Gly Ile Arg Gln Trp Trp Lys Leu Lys Pro Gly Pro Pro Pro Pro
20 25 30

Lys Pro Ala Glu Arg His Lys Asp Asp Ser Arg Gly Leu Val Leu Pro
35 40 45

Gly Tyr Lys Tyr Leu Gly Pro Phe Asn Gly Leu Asp Lys Gly Glu Pro
50 55 60

Val Asn Glu Ala Asp Ala Ala Ala Leu Glu His Asp Lys Ala Tyr Asp
65 70 75 80

Arg Gln Leu Asp Ser Gly Asp Asn Pro Tyr Leu Lys Tyr Asn His Ala
85 90 95

Asp Ala Glu Phe Gln Glu Arg Leu Lys Glu Asp Thr Ser Phe Gly Gly
100 105 110

Asn Leu Gly Arg Ala Val Phe Gln Ala Lys Lys Arg Val Leu Glu Pro
115 120 125

Leu Gly Leu Val Glu Glu Pro Val Lys Thr Ala Pro Gly Lys Lys Arg
130 135 140

Pro Val Glu His Ser Pro Val Glu Pro Asp Ser Ser Ser Gly Thr Gly
145 150 155 160

Lys Ala Gly Gln Gln Pro Ala Arg Lys Arg Leu Asn Phe Gly Gln Thr
165 170 175

Gly Asp Ala Asp Ser Val Pro Asp Pro Gln Pro Leu Gly Gln Pro Pro
180 185 190

Ala Ala Pro Ser Gly Leu Gly Thr Asn Thr Met Ala Thr Gly Ser Gly
195 200 205

Ala Pro Met Ala Asp Asn Asn Glu Gly Ala Asp Gly Val Gly Asn Ser
210 215 220

Ser Gly Asn Trp His Cys Asp Ser Thr Trp Met Gly Asp Arg Val Ile
225 230 235 240

Thr Thr Ser Thr Arg Thr Trp Ala Leu Pro Thr Tyr Asn Asn His Leu
245 250 255

Tyr Lys Gln Ile Ser Ser Gln Ser Gly Ala Ser Asn Asp Asn His Tyr
260 265 270

Phe Gly Tyr Ser Thr Pro Trp Gly Tyr Phe Asp Phe Asn Arg Phe His
275 280 285

Cys His Phe Ser Pro Arg Asp Trp Gln Arg Leu Ile Asn Asn Asn Trp
290 295 300

Gly Phe Arg Pro Lys Arg Leu Asn Phe Lys Leu Phe Asn Ile Gln Val
305 310 315 320

Lys Glu Val Thr Gln Asn Asp Gly Thr Thr Thr Ile Ala Asn Asn Leu
325 330 335

Thr Ser Thr Val Gln Val Phe Thr Asp Ser Glu Tyr Gln Leu Pro Tyr
340 345 350

Val Leu Gly Ser Ala His Gln Gly Cys Leu Pro Pro Phe Pro Ala Asp
355 360 365

Val Phe Met Val Pro Gln Tyr Gly Tyr Leu Thr Leu Asn Asn Gly Ser
370 375 380

Gln Ala Val Gly Arg Ser Ser Phe Tyr Cys Leu Glu Tyr Phe Pro Ser

385		390		395		400
Gln Met Leu Arg Thr Gly Asn Asn Phe Thr Phe Ser Tyr Thr Phe Glu						
		405		410		415
Asp Val Pro Phe His Ser Ser Tyr Ala His Ser Gln Ser Leu Asp Arg						
		420		425		430
Leu Met Asn Pro Leu Ile Asp Gln Tyr Leu Tyr Tyr Leu Ser Arg Thr						
		435		440		445
Asn Thr Pro Ser Gly Thr Thr Thr Gln Ser Arg Leu Gln Phe Ser Gln						
		450		455		460
Ala Gly Ala Ser Asp Ile Arg Asp Gln Ser Arg Asn Trp Leu Pro Gly						
465		470		475		480
Pro Cys Tyr Arg Gln Gln Arg Val Ser Lys Thr Ser Ala Asp Asn Asn						
		485		490		495
Asn Ser Glu Tyr Ser Trp Thr Gly Ala Thr Lys Tyr His Leu Asn Gly						
		500		505		510
Arg Asp Ser Leu Val Asn Pro Gly Pro Ala Met Ala Ser His Lys Asp						
		515		520		525
Asp Glu Glu Lys Phe Phe Pro Gln Ser Gly Val Leu Ile Phe Gly Lys						
		530		535		540
Gln Gly Ser Glu Lys Thr Asn Val Asp Ile Glu Lys Val Met Ile Thr						
545		550		555		560
Asp Glu Glu Glu Ile Arg Thr Thr Asn Pro Val Ala Thr Glu Gln Tyr						
		565		570		575
Gly Ser Val Ser Thr Asn Leu Gln Arg Gly Asn Arg Gln Ala Ala Thr						
		580		585		590
Ala Asp Val Asn Thr Gln Gly Val Leu Pro Gly Met Val Trp Gln Asp						
		595		600		605

Arg Asp Val Tyr Leu Gln Gly Pro Ile Trp Ala Lys Ile Pro His Thr
610 615 620

Asp Gly His Phe His Pro Ser Pro Leu Met Gly Gly Phe Gly Leu Lys
625 630 635 640

His Pro Pro Pro Gln Ile Leu Ile Lys Asn Thr Pro Val Pro Ala Asn
645 650 655

Pro Ser Thr Thr Phe Ser Ala Ala Lys Phe Ala Ser Phe Ile Thr Gln
660 665 670

Tyr Ser Thr Gly Gln Val Ser Val Glu Ile Glu Trp Glu Leu Gln Lys
675 680 685

Glu Asn Ser Lys Arg Trp Asn Pro Glu Ile Gln Tyr Thr Ser Asn Tyr
690 695 700

Asn Lys Ser Val Asn Val Asp Phe Thr Val Asp Thr Asn Gly Val Tyr
705 710 715 720

Ser Glu Pro Arg Pro Ile Gly Thr Arg Tyr Leu Thr Arg Asn Leu
725 730 735

<210> 16
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> TetR binding site

<400> 16
tccctatcag tgatagaga

19

<210> 17
<211> 107
<212> DNA
<213> Artificial Sequence

<220>
<223> Modified MLP

<400> 17

cgccctcttc ggcacatcaagg aaggtgattg gttttaggt gtaggccacg tgaccgggtg 60
 ttctgaagg ggggtataa aaggtcccta tcagttag agactca 107

<210> 18
 <211> 107
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Modified MLP

<400> 18
 cgccctcttc ggcacatcaagg aaggtgattg gttttaggt gtaggccacg tgactcccta 60
 tcagttag agaactataa aaggtcccta tcagttag agactca 107

<210> 19
 <211> 137
 <212> PRT
 <213> Human adenovirus D serotype 9 (HAdV-9)

<400> 19

Met Pro Arg Lys Lys Gln Glu Pro Leu Val Glu Glu Met Glu Glu Glu
 1 5 10 15

Trp Asp Ser Gln Ala Glu Glu Asp Glu Trp Glu Glu Glu Thr Glu Glu
 20 25 30

Glu Glu Leu Glu Glu Val Glu Glu Glu Gln Ala Thr Glu Gln Pro Val
 35 40 45

Ala Ala Pro Ser Ala Pro Ala Ala Pro Ala Val Thr Asp Thr Thr Ser
 50 55 60

Ala Ala Pro Ala Lys Pro Pro Arg Arg Trp Asp Arg Val Lys Gly Asp
 65 70 75 80

Gly Lys His Glu Arg Gln Gly Tyr Arg Ser Trp Arg Ala His Lys Ala
 85 90 95

Ala Ile Ile Ala Cys Leu Gln Asp Cys Gly Gly Asn Ile Ala Phe Ala
 100 105 110

Arg Arg Tyr Leu Leu Phe His Arg Gly Val Asn Ile Pro Arg Asn Val
 115 120 125

Leu His Tyr Tyr Arg His Leu His Ser
 130 135

<210> 20
 <211> 585
 <212> DNA
 <213> adenovirus 5

<400> 20
 atggcaccca aaaagaagct gcagctgccg ccgccaccca cggacgagga ggaatactgg 60
 gacagtcagg cagaggaggt tttggacgag gaggaggagg acatgatgga agactgggag 120
 agcctagacg aggaagcttc cgaggtcgaa gaggtgtcag acgaaacacc gtcaccctcg 180
 gtcgcattcc cctcgccggc gccccagaaa tcggcaaccg gttccagcat ggctacaacc 240
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 actggaacca gggccggtaa gtccaagcag ccgccgccgt tagcccaaga gcaacaacag 360
 cgccaaggct accgctcatg gcgcggggcac aagaacgcc tagttgcttg cttgcaagac 420
 tgtggggggca acatctcctt cgcccgccgc tttcttctct accatcacgg cgtggccttc 480
 ccccgtaca tcctgcatta ctaccgtcat ctctacagcc catactgcac cggcggcagc 540
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<210> 21
 <211> 194
 <212> PRT
 <213> adenovirus 5

<400> 21

Met Ala Pro Lys Lys Lys Leu Gln Leu Pro Pro Pro Pro Thr Asp Glu
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Glu Glu Tyr Trp Asp Ser Gln Ala Glu Glu Val Leu Asp Glu Glu Glu
 20 25 30

Glu Asp Met Met Glu Asp Trp Glu Ser Leu Asp Glu Glu Ala Ser Glu
 35 40 45

Val Glu Glu Val Ser Asp Glu Thr Pro Ser Pro Ser Val Ala Phe Pro
50 55 60

Ser Pro Ala Pro Gln Lys Ser Ala Thr Gly Ser Ser Met Ala Thr Thr
65 70 75 80

Ser Ala Pro Gln Ala Pro Pro Ala Leu Pro Val Arg Arg Pro Asn Arg
85 90 95

Arg Trp Asp Thr Thr Gly Thr Arg Ala Gly Lys Ser Lys Gln Pro Pro
100 105 110

Pro Leu Ala Gln Glu Gln Gln Gln Arg Gln Gly Tyr Arg Ser Trp Arg
115 120 125

Gly His Lys Asn Ala Ile Val Ala Cys Leu Gln Asp Cys Gly Gly Asn
130 135 140

Ile Ser Phe Ala Arg Arg Phe Leu Leu Tyr His His Gly Val Ala Phe
145 150 155 160

Pro Arg Asn Ile Leu His Tyr Tyr Arg His Leu Tyr Ser Pro Tyr Cys
165 170 175

Thr Gly Gly Ser Gly Ser Asn Ser Ser Gly His Thr Glu Ala Lys Ala
180 185 190

Thr Gly

<210> 22
<211> 690
<212> DNA
<213> adenovirus 5

<400> 22
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agcctagacg aggaagcttc cgaggtcgaa gaggtgtcag acgaaacacc gtcaccctcg 180
gtcgcatgcc cctcgccggc gccccagaaa tcggcaaccg gttccagcat ggctacaacc 240

tccgctcctc aggcgccgcc ggcactgccc gttcgccgac ccaaccgtag atgggacacc	300
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gcggcggcag cagcaggagg aggagcgctg cgtctggcgc ccaacgaacc cgtatcgacc	480
cgcgagctta gaaacaggat ttttcccact ctgtatgcta tatttcaaca gagcaggggc	540
caagaacaag agctgaaaat aaaaaacagg tctctgcgat ccctcaccgc cagctgcctg	600
tatcacaaaa gcgaagatca gcttcggcgc acgctggaag acgcggaggc tctcttcagt	660
aaatactgcg cgctgactct taaggactag	690

<210> 23
 <211> 229
 <212> PRT
 <213> adenovirus 5

<400> 23

Met	Ala	Pro	Lys	Lys	Lys	Leu	Gln	Leu	Pro	Pro	Pro	Pro	Thr	Asp	Glu
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Glu	Glu	Tyr	Trp	Asp	Ser	Gln	Ala	Glu	Glu	Val	Leu	Asp	Glu	Glu	Glu
			20					25					30		

Glu	Asp	Met	Met	Glu	Asp	Trp	Glu	Ser	Leu	Asp	Glu	Glu	Ala	Ser	Glu
		35					40					45			

Val	Glu	Glu	Val	Ser	Asp	Glu	Thr	Pro	Ser	Pro	Ser	Val	Ala	Phe	Pro
	50					55					60				

Ser	Pro	Ala	Pro	Gln	Lys	Ser	Ala	Thr	Gly	Ser	Ser	Met	Ala	Thr	Thr
65					70					75					80

Ser	Ala	Pro	Gln	Ala	Pro	Pro	Ala	Leu	Pro	Val	Arg	Arg	Pro	Asn	Arg
			85						90					95	

Arg	Trp	Asp	Thr	Thr	Gly	Thr	Arg	Ala	Ala	His	Thr	Ala	Pro	Ala	Ala
			100					105					110		

Ala	Ala	Ala	Ala	Ala	Thr	Ala	Ala	Ala	Thr	Gln	Lys	Gln	Arg	Arg	Pro
		115					120					125			

Asp Ser Lys Thr Leu Thr Lys Pro Lys Lys Ser Thr Ala Ala Ala Ala
130 135 140

Ala Gly Gly Gly Ala Leu Arg Leu Ala Pro Asn Glu Pro Val Ser Thr
145 150 155 160

Arg Glu Leu Arg Asn Arg Ile Phe Pro Thr Leu Tyr Ala Ile Phe Gln
165 170 175

Gln Ser Arg Gly Gln Glu Gln Glu Leu Lys Ile Lys Asn Arg Ser Leu
180 185 190

Arg Ser Leu Thr Arg Ser Cys Leu Tyr His Lys Ser Glu Asp Gln Leu
195 200 205

Arg Arg Thr Leu Glu Asp Ala Glu Ala Leu Phe Ser Lys Tyr Cys Ala
210 215 220

Leu Thr Leu Lys Asp
225

<210> 24
<211> 220
<212> DNA
<213> adeno-associated virus 2

<400> 24
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tctgacatgg atctgaatct gattgagcag gcaccctga ccgtggccga gaagctgcag 180
cgcgactttc tgacggaatg gcgccgtgtg agtaaggccc 220

<210> 25
<211> 33
<212> DNA
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