

## SEQUENCE LISTING

<110> Gruber, Jens  
 <120> Herabegulation der Genexpression mittels Nukleinsäure-beladener virusähnlicher Partikel  
 <130> 38204P EP  
 <160> 6  
 <170> PatentIn version 3.3  
 <210> 1  
 <211> 1065  
 <212> DNA  
 <213> Artificial  
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 <223> Polyoma JC VP1 Gen  
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 tcaatttcta tatcagatac atttgaaaagt gactccccc aa ataaggacat gcttccttgt 240  
 tacagtgtgg ccagaattcc actacccaat ctaaagtagg atctaacctg tggaaatata 300  
 ctaatgtggg aggctgtgac cttaaaaaact gaggttttag gggtgacaac tttgatgaat 360  
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<223> Polyoma VP1

<220>  
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<222> (1)..(354)

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Gly Val Asp Ser Ile Thr Glu Val Glu Cys Phe Leu Thr Pro Glu Met  
35 40 45

Gly Asp Pro Asp Glu His Leu Arg Gly Phe Ser Lys Ser Ile Ser Ile  
50 55 60

Ser Asp Thr Phe Glu Ser Asp Ser Pro Asn Lys Asp Met Leu Pro Cys  
65 70 75 80

Tyr Ser Val Ala Arg Ile Pro Leu Pro Asn Leu Asn Glu Asp Leu Thr  
85 90 95

Cys Gly Asn Ile Leu Met Trp Glu Ala Val Thr Leu Lys Thr Glu Val  
100 105 110

Leu Gly Val Thr Thr Leu Met Asn Val His Ser Asn Gly Gln Ala Thr  
115 120 125

His Asp Asn Gly Ala Gly Lys Pro Val Gln Gly Thr Ser Phe His Phe  
130 135 140

Phe Ser Val Gly Gly Glu Ala Leu Glu Leu Gln Gly Val Val Phe Asn  
145 150 155 160

Tyr Arg Thr Lys Tyr Pro Asp Gly Thr Ile Phe Pro Lys Asn Ala Thr  
165 170 175

Val Gln Ser Gln Val Met Asn Thr Glu His Lys Ala Tyr Leu Asp Lys  
180 185 190

Asn Lys Ala Tyr Pro Val Glu Cys Trp Val Pro Asp Pro Thr Arg Asn  
195 200 205

Glu Asn Thr Arg Tyr Phe Gly Thr Leu Thr Gly Gly Glu Asn Val Pro

210	215	220
Pro Val Leu His Ile Thr Asn Thr Ala Thr Thr Val Leu Leu Asp Glu 225 230 235 240		
Phe Gly Val Gly Pro Leu Cys Lys Gly Asp Asn Leu Tyr Leu Ser Ala 245 250 255		
Val Asp Val Cys Gly Met Phe Thr Asn Arg Ser Gly Thr Gln Gln Trp 260 265 270		
Arg Gly Leu Ser Arg Tyr Phe Lys Val Gln Leu Arg Lys Arg Arg Val 275 280 285		
Lys Asn Pro Tyr Pro Ile Ser Phe Leu Leu Thr Asp Leu Ile Asn Arg 290 295 300		
Arg Thr Pro Arg Val Asp Gly Gln Pro Met Tyr Gly Met Asp Ala Gln 305 310 315 320		
Val Glu Glu Val Arg Val Phe Glu Gly Thr Glu Glu Leu Pro Gly Asp 325 330 335		
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Met Leu

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<220>  
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 gagcatctta ggggttttag taagtcaatt tctatatcag atacatttga aagtgactcc 240  
 ccaaataagg acatgcttcc ttgttacagt gtggccagaa ttccactacc caatctaaat 300  
 gaggatctaa cctgtggaaa tataactaat tgggaggctg tgaccttaa aactgaggtt 360  
 ttaggggtga caactttgat gaatgtgcac tctaattggtc aagcaactca tgacaatggt 420

gcaggaaagc cagtgcaggg caccagcttt catttttttt ctgttggggg ggaggcttta 480  
gaattacagg ggggtggttt taactacaga acaaagtacc cagatggaac aatttttcca 540  
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aacaagcat atcctgttga atgttgggtt cctgatccca ccagaaatga aaacacaaga 660  
tattttggga cactaacagg aggagaaaat gttcctccag ttcttcatat aacaaacact 720  
gccacaacag tgctgcttga tgaatttggt gttggggccac tttgcaaagg tgacaacttg 780  
tatttgtcag ctgttgatgt ttgtggaatg tttactaaca gatctggtac ccagcagtgg 840  
agaggactgt ccagatat tt taaggttcag ctgagaaaaa ggagggttaa aaaccctac 900  
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cctatgtatg gtatggatgc tcaggtagag gaggttagag tttttgaggg gacagaggaa 1020  
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<220>  
<223> VP1-Mut2

<220>  
<221> MISC\_FEATURE  
<222> (1)..(362)

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Lys Pro Lys Asp Pro Val Gln Val Pro Lys Leu Leu Ile Arg Gly Gly  
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Val Glu Val Leu Glu Val Lys Thr Gly Val Asp Ser Ile Thr Glu Val  
35 40 45

Glu Cys Phe Leu Thr Pro Glu Met Gly Asp Pro Asp Glu His Leu Arg  
50 55 60

Gly Phe Ser Lys Ser Ile Ser Ile Ser Asp Thr Phe Glu Ser Asp Ser  
65 70 75 80

Pro Asn Lys Asp Met Leu Pro Cys Tyr Ser Val Ala Arg Ile Pro Leu  
85 90 95

Pro Asn Leu Asn Glu Asp Leu Thr Cys Gly Asn Ile Leu Met Trp Glu

100	105	110
Ala Val Thr Leu Lys Thr Glu Val Leu Gly Val Thr Thr Leu Met Asn 115 120 125		
Val His Ser Asn Gly Gln Ala Thr His Asp Asn Gly Ala Gly Lys Pro 130 135 140		
Val Gln Gly Thr Ser Phe His Phe Phe Ser Val Gly Gly Glu Ala Leu 145 150 155 160		
Glu Leu Gln Gly Val Val Phe Asn Tyr Arg Thr Lys Tyr Pro Asp Gly 165 170 175		
Thr Ile Phe Pro Lys Asn Ala Thr Val Gln Ser Gln Val Met Asn Thr 180 185 190		
Glu His Lys Ala Tyr Leu Asp Lys Asn Lys Ala Tyr Pro Val Glu Cys 195 200 205		
Trp Val Pro Asp Pro Thr Arg Asn Glu Asn Thr Arg Tyr Phe Gly Thr 210 215 220		
Leu Thr Gly Gly Glu Asn Val Pro Pro Val Leu His Ile Thr Asn Thr 225 230 235 240		
Ala Thr Thr Val Leu Leu Asp Glu Phe Gly Val Gly Pro Leu Cys Lys 245 250 255		
Gly Asp Asn Leu Tyr Leu Ser Ala Val Asp Val Cys Gly Met Phe Thr 260 265 270		
Asn Arg Ser Gly Thr Gln Gln Trp Arg Gly Leu Ser Arg Tyr Phe Lys 275 280 285		
Val Gln Leu Arg Lys Arg Arg Val Lys Asn Pro Tyr Pro Ile Ser Phe 290 295 300		
Leu Leu Thr Asp Leu Ile Asn Arg Arg Thr Pro Arg Val Asp Gly Gln 305 310 315 320		
Pro Met Tyr Gly Met Asp Ala Gln Val Glu Glu Val Arg Val Phe Glu 325 330 335		
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<212> PRT  
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<223> SV40

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Lys Pro Lys Glu Pro  
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<211> 21  
<212> PRT  
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<222> (1)..(21)

<400> 6

Met Ala Pro Thr Lys Arg Lys Gly Glu Cys Pro Gly Ala Ala Pro Lys  
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Lys Pro Lys Glu Pro  
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