SEQUENCE LISTING

<110> Astellas Pharma Inc.
NATIONAL UNIVERSITY CORPORATION TOTTORI UNIVERSITY

<120> Novel genetically engineered vaccinia viruses

<130> A17006A00

<150> JP 2016-107481
<151> 2016-05-30

<160> 23

<170> PatentIn version 3.5

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ttggtatcct gatgcccctg gagagatggt ggtgctgacc tgtgatactc ccgaagagga 180

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<210> 11
<211> 20

<212> DNA
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<220>
<223> VGF reverse primer

<400> 11
ttagttcgtc gagtgaacct 20

<210> 12
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<223> O1L forward primer

<400> 12
acagggatta agacggaaag 20

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<400> 13
gtcaacaagc atcttccaac 20

<210> 14
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<223> B5R forward primer-for PCR

<400> 14
cgtataatac gttggtctat 20

<210> 15
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<213> Artificial Sequence

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<223> B5R reverse primer-for PCR

<400> 15
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<210> 16
<211> 13
<212> DNA
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<223> 5' restriction enzyme site in SEQ ID NOS: 7 to 9

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20 25 30

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

Val Gln Tyr Glu Gln Glu Ile Glu Ser Leu Glu Ala Thr Tyr His Ile
50 55 60

Ile Ile Val Ala Leu Thr Ile Met Gly Val Ile Phe Leu Ile Ser Val
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Ile Val Leu Val Cys Ser Cys Asp Lys Asn Asn Asp Gln Tyr Lys Phe
85 90 95

His Lys Leu Leu Pro
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<223> Partial genome sequence of Vaccinia virus

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<212> DNA
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