

2016019798.txt
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<110> VAXIMM AG

<120> Novel CMV pp65 targeting DNA Vaccine for Cancer Immunotherapy

<130> 111688P855PC

<160> 7

<170> PatentIn version 3.5

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<211> 561

<212> PRT

<213> CMV

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Arg Val Ser Gln Pro Ser Leu Ile Leu Val Ser Gln Tyr Thr Pro Asp
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Ser Thr Pro Cys His Arg Gly Asp Asn Gln Leu Gln Val Gln His Thr
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Tyr Phe Thr Gly Ser Glu Val Glu Asn Val Ser Val Asn Val His Asn
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Pro Thr Gly Arg Ser Ile Cys Pro Ser Gln Glu Pro Met Ser Ile Tyr
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Val Tyr Ala Leu Pro Leu Lys Met Leu Asn Ile Pro Ser Ile Asn Val
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His His Tyr Pro Ser Ala Ala Glu Arg Lys His Arg His Leu Pro Val
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Glu Pro Asp Val Tyr Tyr Thr Ser Ala Phe Val Phe Pro Thr Lys Asp
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Val Ala Leu Arg His Val Val Cys Ala His Glu Leu Val Cys Ser Met

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Lys Val Tyr Leu Glu Ser Phe Cys Glu Asp Val Pro Ser Gly Lys Leu
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Phe Met His Val Thr Leu Gly Ser Asp Val Glu Glu Asp Leu Thr Met
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His Ile Met Leu Asp Val Ala Phe Thr Ser His Glu His Phe Gly Leu
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Val Glu Leu Arg Gln Tyr Asp Pro Val Ala Ala Leu Phe Phe Phe Asp
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Ser Thr Pro Cys His Arg Gly Asp Asn Gln Leu Gln Val Gln His Thr
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Tyr Phe Thr Gly Ser Glu Val Glu Asn Val Ser Val Asn Val His Asn
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Pro Thr Gly Arg Ser Ile Cys Pro Ser Gln Glu Pro Met Ser Ile Tyr
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Val Tyr Ala Leu Pro Leu Lys Met Leu Asn Ile Pro Ser Ile Asn Val
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His His Tyr Pro Ser Ala Ala Glu Arg Lys His Arg His Leu Pro Val
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Leu Thr Val Ser Gly Leu Ala Trp Thr Arg Gln Gln Asn Gln Trp Lys
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Glu Pro Asp Val Tyr Tyr Thr Ser Ala Phe Val Phe Pro Thr Lys Asp
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Val Ala Leu Arg His Val Val Cys Ala His Glu Leu Val Cys Ser Met
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Glu Asn Thr Arg Ala Thr Lys Met Gln Val Ile Gly Asp Gln Tyr Val
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Lys Val Tyr Leu Glu Ser Phe Cys Glu Asp Val Pro Ser Gly Lys Leu
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Leu Cys Pro Lys Ser Ile Pro Gly Leu Ser Ile Ser Gly Asn Leu Leu
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Phe Thr Ser Gln Tyr Arg Ile Gln Gly Lys Leu Glu Tyr Arg His Thr
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Glu Glu Asp Thr Asp Glu Asp Ser Asp Asn Glu Ile His Asn Pro Ala
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Val Pro Met Val Ala Thr Val Gln Gly Gln Asn Leu Lys Tyr Gln Glu
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Phe Phe Trp Asp Ala Asn Asp Ile Tyr Arg Ile Phe Ala Glu Leu Glu
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Arg Val Ser Gln Pro Ser Leu Ile Leu Val Ser Gln Tyr Thr Pro Asp
Seite 5

50

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Tyr Phe Thr Gly Ser Glu Val Glu Asn Val Ser Val Asn Val His Asn
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Pro Thr Gly Arg Ser Ile Cys Pro Ser Gln Glu Pro Met Ser Ile Tyr
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Val Tyr Ala Leu Pro Leu Lys Met Leu Asn Ile Pro Ser Ile Asn Val
115 120 125

His His Tyr Pro Ser Ala Ala Glu Arg Lys His Arg His Leu Pro Val
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Ala Asp Ala Val Ile His Ala Ser Gly Lys Gln Met Trp Gln Ala Arg
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Leu Thr Val Ser Gly Leu Ala Trp Thr Arg Gln Gln Asn Gln Trp Lys
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Glu Pro Asp Val Tyr Tyr Thr Ser Ala Phe Val Phe Pro Thr Lys Asp
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Val Ala Leu Arg His Val Val Cys Ala His Glu Leu Val Cys Ser Met
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Glu Asn Thr Arg Ala Thr Lys Met Gln Val Ile Gly Asp Gln Tyr Val
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Lys Val Tyr Leu Glu Ser Phe Cys Glu Asp Val Pro Ser Gly Lys Leu
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Phe Met His Val Thr Leu Gly Ser Asp Val Glu Glu Asp Leu Thr Met
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Thr Arg Asn Pro Gln Pro Phe Met Arg Pro His Glu Arg Asn Gly Phe
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Thr Val Leu Cys Pro Lys Asn Met Ile Ile Lys Pro Gly Lys Ile Ser
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His Ile Met Leu Asp Val Ala Phe Thr Ser His Glu His Phe Gly Leu
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Leu Cys Pro Lys Ser Ile Pro Gly Leu Ser Ile Ser Gly Asn Leu Leu
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Ile Asp Leu Leu Leu Gln Arg Gly Pro Gln Tyr Ser Glu His Pro Thr
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Phe Thr Ser Gln Tyr Arg Ile Gln Gly Lys Leu Glu Tyr Arg His Thr
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Trp Asp Arg His Asp Glu Gly Ala Ala Gln Gly Asp Asp Asp Val Trp
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Thr Ser Gly Ser Asp Ser Asp Glu Glu Leu Val Thr Thr Glu Arg Lys
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Glu Glu Asp Thr Asp Glu Asp Ser Asp Asn Glu Ile His Asn Pro Ala
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