SEQUENCE LISTING

<110> Bioimmulance Co., Ltd.

<120> PARTIAL PEPTIDE OF SURVIVIN PRESENTED ON MHC CLASS II MOLECULE AND USE THEREOF

<130> PCT0320BI-SG

<140> PCT/JP2009/056649
<141> 2009-03-31

<150> JP 2008-093292
<151> 2008-03-31

<160> 57

<170> PatentIn version 3.1

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<213> Homo sapiens

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

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Phe Lys Asn Trp Pro Phe Leu Glu Gly Cys Ala Cys Thr Pro Glu Arg
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Met Ala Glu Ala
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Glu Gly Cys Ala Cys Thr Pro Glu Arg Met Ala Glu Ala Gly Phe Ile
1 5 10 15

His Cys Pro

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<213> Homo sapiens

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Pro Glu Arg Met Ala Glu Ala Gly Phe Ile His Cys Pro Thr Glu Asn
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Glu Pro Asp Leu
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Gly Phe Ile His Cys Pro Thr Glu Asn Glu Pro Asp Leu Ala Gln Cys
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Phe

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Pro Thr Glu Asn Glu Pro Asp Leu Ala Gln Cys Phe Phe Cys Phe Lys
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Glu Leu Glu

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Asp Leu Ala Gln Cys Phe Phe Cys Phe Lys Glu Leu Glu Gly Trp Glu
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Pro Asp

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Phe Phe Cys Phe Lys Glu Leu Glu Gly Trp Glu Pro Asp Asp Asp Pro
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Ile Gly

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Glu Leu Glu Gly Trp Glu Pro Asp Asp Asp Pro Ile Gly Pro Gly Thr
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Val Ala Tyr Ala
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Asp Asp Asp Pro Ile Gly Pro Gly Thr Val Ala Tyr Ala Cys Asn Thr
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Ser Thr Leu Gly
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<400> 13

Gly Thr Val Ala Tyr Ala Cys Asn Thr Ser Thr Leu Gly Gly Arg Gly
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Gly

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Asn Thr Ser Thr Leu Gly Gly Arg Gly Gly Arg Ile Thr Arg Glu Glu
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His Lys

<210> 15
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Gly Gly Arg Gly Gly Arg Ile Thr Arg Glu Glu His Lys Lys His Ser
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<210> 16
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Arg Ile Thr Arg Glu Glu His Lys Lys His Ser Ser Gly Cys Ala Phe
1 5 10 15

Leu

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<400> 17

Glu His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys
1 5 10 15

Gln Phe Glu

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<400> 18

Gly Cys Ala Phe Leu Ser Val Lys Lys Gln Phe Glu Glu Leu Thr Leu
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Gly Glu Phe

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Val Lys Lys Gln Phe Glu Glu Leu Thr Leu Gly Glu Phe Leu Lys Leu
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Asp Arg Glu Arg
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Leu Thr Leu Gly Glu Phe Leu Lys Leu Asp Arg Glu Arg Ala Lys Asn
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Lys Ile Ala Lys
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<400> 21

Lys Leu Asp Arg Glu Arg Ala Lys Asn Lys Ile Ala Lys Glu Thr Asn
1 5 10 15

Asn Lys Lys Lys
20

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<400> 22

Lys Asn Lys Ile Ala Lys Glu Thr Asn Asn Lys Lys Lys Glu Phe Glu
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Glu Thr Ala Lys
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Thr Asn Asn Lys Lys Lys Glu Phe Glu Glu Thr Ala Lys Lys Val Arg
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Arg Ala Ile Glu
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Glu Phe Glu Glu Thr Ala Lys Lys Val Arg Arg Ala Ile Glu Gln Leu
1 5 10 15

Ala

<210> 25
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<400> 25

Ala Lys Lys Val Arg Arg Ala Ile Glu Gln Leu Ala Ala Met Asp
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<210> 26
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Glu His Lys Lys His Ser Ser Gly Cys Ala Phe Leu
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<213> Homo sapiens

<400> 27

Glu His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser
1 5 10

<210> 28
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Glu His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val
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Glu His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys
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His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys
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Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys Gln
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Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys Gln Phe
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<400> 33

His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys Gln Phe Glu
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Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys Gln Phe Glu
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Ser Gly Cys Ala Phe Leu Ser Val Lys Lys Gln Phe Glu
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Gly Cys Ala Phe Leu Ser Val Lys Lys Gln Phe Glu
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Gly Cys Ala Phe Leu Ser Val Lys Lys Gln
1 5 10

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Ala His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys
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Gln Phe Glu

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Glu Ala Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys
1 5 10 15

Gln Phe Glu

<210> 40
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Glu His Ala Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys
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Gln Phe Glu

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Glu His Lys Ala His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys
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Gln Phe Glu

<210> 42
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Glu His Lys Lys Ala Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys
1 5 10 15

Gln Phe Glu

<210> 43
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Glu His Lys Lys His Ala Ser Gly Cys Ala Phe Leu Ser Val Lys Lys
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Gln Phe Glu

<210> 44
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<400> 44

Glu His Lys Lys His Ser Ala Gly Cys Ala Phe Leu Ser Val Lys Lys
1 5 10 15

Gln Phe Glu

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Glu His Lys Lys His Ser Ser Ala Cys Ala Phe Leu Ser Val Lys Lys
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Gln Phe Glu

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Glu His Lys Lys His Ser Ser Gly Gly Ala Phe Leu Ser Val Lys Lys
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Gln Phe Glu

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<400> 47

Glu His Lys Lys His Ser Ser Gly Cys Gly Phe Leu Ser Val Lys Lys
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Gln Phe Glu

<210> 48
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Glu His Lys Lys His Ser Ser Gly Cys Ala Gly Leu Ser Val Lys Lys
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Gln Phe Glu

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<400> 49

Glu His Lys Lys His Ser Ser Gly Cys Ala Phe Ala Ser Val Lys Lys
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Gln Phe Glu

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Glu His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ala Val Lys Lys
1 5 10 15

Gln Phe Glu

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<400> 51

Glu His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Ala Lys Lys
1 5 10 15

Gln Phe Glu

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<400> 52

Glu His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Ala Lys
1 5 10 15

Gln Phe Glu

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<400> 53

Glu His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Ala
1 5 10 15

Gln Phe Glu

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<400> 54

Glu His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys
1 5 10 15

Ala Phe Glu

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1 5 10 15

Xaa Xaa Xaa

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Met Gly Ala Pro Thr Leu Pro Pro Ala Trp Gln Pro Phe Leu Lys Asp
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His Arg Ile Ser Thr Phe Lys Asn Trp Pro Phe Leu Glu Gly Cys Ala
20 25 30

Cys Thr Pro Glu Arg Met Ala Glu Ala Gly Phe Ile His Cys Pro Thr
35 40 45

Glu Asn Glu Pro Asp Leu Ala Gln Cys Phe Phe Cys Phe Lys Glu Leu
50 55 60

Glu Gly Trp Glu Pro Asp Asp Asp Pro Ile Gly Pro Gly Thr Val Ala
65 70 75 80

Tyr Ala Cys Asn Thr Ser Thr Leu Gly Gly Arg Gly Gly Arg Ile Thr
85 90 95

Arg Glu Glu His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val
100 105 110

Lys Lys Gln Phe Glu Glu Leu Thr Leu Gly Glu Phe Leu Lys Leu Asp
115 120 125

Arg Glu Arg Ala Lys Asn Lys Ile Ala Lys Glu Thr Asn Asn Lys Lys
130 135 140

Lys Glu Phe Glu Glu Thr Ala Lys Lys Val Arg Arg Ala Ile Glu Gln
145 150 155 160

Leu Ala Ala Met Asp
165

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<400> 57

Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val
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