

SEQUENCE LISTING

<110> Rassaf, Tienush
Hendgen-Cotta, Ulrike

<120> BNIP3 peptides for treatment of reperfusion injury

<130> 61 380 K

<150> EP 19 173 715.4

<151> 2019-05-10

<160> 69

<170> PatentIn version 3.5

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<213> Mus musculus

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Tyr Asn Gly Asp Met Glu Lys Ile Leu Leu Asp Ala Gln His Glu Ser
35 40 45

Gly Arg Ser Ser Ser Lys Ser Ser His Cys Asp Ser Pro Pro Arg Ser
50 55 60

Gln Thr Pro Gln Asp Thr Asn Arg Ala Glu Ile Asp Ser His Ser Phe
65 70 75 80

Gly Glu Lys Asn Ser Thr Leu Ser Glu Glu Asp Tyr Ile Glu Arg Arg
85 90 95

Arg Glu Val Glu Ser Ile Leu Lys Lys Asn Ser Asp Trp Ile Trp Asp
100 105 110

Trp Ser Ser Arg Pro Glu Asn Ile Pro Pro Lys Glu Phe Leu Phe Lys
115 120 125

His Pro Lys Arg Thr Ala Thr Leu Ser Met Arg Asn Thr Ser Val Met
130 135 140

Lys Lys Gly Gly Ile Phe Ser Ala Asp Phe Leu Lys Val Phe Leu Pro
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Ser Leu Leu Leu Ser His Leu Leu Ala Ile Gly Leu Gly Ile Tyr Ile
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Phe Leu Arg Pro Gly Cys Gly Ala Pro Leu Ser Pro Gly Ala Gln Leu
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Gly Arg Gly Ala Pro Thr Ser Ala Phe Pro Pro Pro Ala Ala Glu Ala
35 40 45

His Pro Ala Ala Arg Arg Gly Leu Arg Ser Pro Gln Leu Pro Ser Gly
50 55 60

Ala Met Ser Gln Asn Gly Ala Pro Gly Met Gln Glu Glu Ser Leu Gln
65 70 75 80

Gly Ser Trp Val Glu Leu His Phe Ser Asn Asn Gly Asn Gly Gly Ser
85 90 95

Val Pro Ala Ser Val Ser Ile Tyr Asn Gly Asp Met Glu Lys Ile Leu
100 105 110

Leu Asp Ala Gln His Glu Ser Gly Arg Ser Ser Ser Lys Ser Ser His
115 120 125

Cys Asp Ser Pro Pro Arg Ser Gln Thr Pro Gln Asp Thr Asn Arg Ala
130 135 140

Ser Glu Thr Asp Thr His Ser Ile Gly Glu Lys Asn Ser Ser Gln Ser
145 150 155 160

Glu Glu Asp Asp Ile Glu Arg Arg Lys Glu Val Glu Ser Ile Leu Lys
165 170 175

Lys Asn Ser Asp Trp Ile Trp Asp Trp Ser Ser Arg Pro Glu Asn Ile
180 185 190

Pro Pro Lys Glu Phe Leu Phe Lys His Pro Lys Arg Thr Ala Thr Leu
195 200 205

Ser Met Arg Asn Thr Ser Val Met Lys Lys Gly Gly Ile Phe Ser Ala
210 215 220

Glu Phe Leu Lys Val Phe Leu Pro Ser Leu Leu Leu Ser His Leu Leu
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Ala Ile Gly Leu Gly Ile Tyr Ile Gly Arg Arg Leu Thr Thr Ser Thr
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Ser Thr Phe

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Trp Val Tyr Leu His Phe Phe Asn
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Trp Val Tyr Leu His Phe Tyr Asn
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Xaa	Phe	Xaa	Asn
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His	Phe	Xaa	Asn
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Met	Ser	Gln	Ser	Gly	Glu	Glu	Asn	Leu	Gln	Gly	Ser	Trp	Val	Glu	Leu
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His	Phe	Phe	Asn
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Ser Gly Glu Glu Asn Leu Gln Gly Ser Trp Val Glu Leu His Phe Xaa
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Asn

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Ser Gly Glu Glu Asn Leu Gln Gly Ser Trp Val Glu Leu His Phe Ser
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Asn

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Ser Gly Glu Glu Asn Leu Gln Gly Ser Trp Val Glu Leu His Phe Phe
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Asn

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Ser Trp Val Glu Leu His Phe Ser Asn
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Ser Trp Val Glu Leu His Phe Phe Asn
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Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Gln
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Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
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<223> Penetratin or Antennapedia protein transduction domain

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Arg Gln Ile Lys Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
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Arg Gly Gly Arg Leu Ser Tyr Ser Arg Arg Arg Phe Ser Thr Ser Thr
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Gly Arg

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Arg Arg Leu Ser Tyr Ser Arg Arg Arg Phe
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Pro Ile Arg Arg Arg Lys Lys Leu Arg Arg Leu Lys
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Arg Arg Gln Arg Arg Thr Ser Lys Leu Met Lys Arg
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Arg Arg Arg Arg Asn Arg Thr Arg Arg Asn Arg Arg Arg Val Arg
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Lys Met Thr Arg Ala Gln Arg Arg Ala Ala Ala Arg Arg Asn Arg Trp
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Thr Ala Arg

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Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Lys Ile Asn Leu
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Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu
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Ala

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Ala Trp Ser Gln Pro Lys Lys Lys Arg Lys Val
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Gly Ala Leu Phe Leu Gly Trp Leu Gly Ala Ala Gly Ser Thr Met Gly
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Ala Trp Ser Gln Pro Lys Lys Lys Arg Lys Val
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<223> MPG protein transduction domain

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Ala Trp Ser Gln Pro Lys Lys Lys Arg Lys Val
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Ala Trp Ser Gln Pro Lys Ser Lys Arg Lys Val
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Lys Lys Arg Lys Val
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Lys Glu Thr Trp Phe Glu Thr Trp Phe Thr Glu Trp Ser Gln Pro Lys
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Lys Lys Arg Lys Val
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Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Gln Trp Val Glu Leu
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His Phe Ser Asn
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His Phe Phe Asn
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His Phe Cys Asn
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His Phe Tyr Asn
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His Phe Ser Asn
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His Phe Ser Asn
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His Phe Ser Asn
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His Phe Ser Asn
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His Phe Phe Asn
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His Phe Tyr Asn
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<210> 62

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Gly Glu Glu Asn Leu Gln Gly Ser Trp Val Glu Leu His Phe Ser Asn
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Gly Glu Glu Asn Leu Gln Gly Ser Trp Val Glu Leu His Phe Phe Asn
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Asn Leu Gln Gly Ser Trp Val Glu Leu His Phe Ser Asn
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Asn Leu Gln Gly Ser Trp Val Glu Leu His Phe Phe Asn
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Leu His Phe Ser Asn
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Leu His Phe Phe Asn
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Leu Glu Val Trp Ser Gly Gln Leu Asn Glu Glu Gly Ser Gln Ser Met
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Leu Glu Val Trp
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