SEQUENCE LISTING

<110> FLAGSHIP PIONEERING INNOVATIONS V, INC.

<120> COMPOSITIONS AND METHODS FOR MEMBRANE PROTEIN DELIVERY

<130> V2050-7013WO

<140>
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<150> 62/631,747
<151> 2018-02-17

<160> 48

<170> PatentIn version 3.5

<210> 1
<211> 5
<212> PRT
<213> Unknown

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Caspase 2 sequence"

<400> 1
Val Asp Val Ala Asp
1 5

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<211> 32
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<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 2
Met Arg Val Lys Glu Lys Tyr Gln His Leu Trp Arg Trp Gly Trp Lys
1 5 10 15

Trp Gly Thr Met Leu Leu Gly Ile Leu Met Ile Cys Ser Ala Thr Glu

20 25 30

<210> 3
<211> 4
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<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 3
Cys Ala Ala Leu
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<210> 4
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 4
Lys Lys Lys Lys Lys Lys
1 5

<210> 5
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<220>
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<400> 5
Arg Arg Arg Arg Arg
1 5

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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 6
Met Arg Leu Leu Leu Ala Leu Leu Gly Val Leu Leu Ser Val Pro Gly
1 5 10 15

Pro Pro Val Leu Ser
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<210> 7
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 7
Cys Ser Ile Met Asn Leu Met Cys Gly Ser Thr Cys
1 5 10

<210> 8
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
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polypeptide"

<400> 8
Gly His Lys Ser Glu Glu Lys Arg Glu Lys Met Lys Arg Thr Leu Leu
1 5 10 15

Lys Asp Trp Lys Thr Arg Leu Ser Tyr Phe Leu Gln Asn Ser Ser Thr

20 25 30

Pro Gly Lys Pro Lys Thr Gly Lys Lys Ser Lys Gln Gln
35 40 45

<210> 9
<211> 18
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 9
Arg Ser Thr Leu Lys Leu Thr Thr Leu Gln Cys Gln Tyr Ser Thr Val
1 5 10 15

Met Asp

<210> 10
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<220>
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<400> 10
Arg Gln Gly Leu His Asn Met Glu Asp Val Tyr Glu Leu Ile Glu Asn
1 5 10 15

Ser His

<210> 11
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<212> PRT
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 11
Met Asp Cys Arg Lys Met Ala Arg Phe Ser Tyr Ser Val Ile Trp Ile
1 5 10 15

Met Ala Ile Ser Lys Val Phe Glu Leu Gly Leu Val Ala Gly
20 25 30

<210> 12
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 12
Met Pro Ala Trp Gly Ala Leu Phe Leu Leu Trp Ala Thr Ala Glu Ala
1 5 10 15

<210> 13
<211> 4
<212> PRT
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peptide"

<400> 13
Arg Asp Tyr Arg
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<210> 14
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<213> Artificial Sequence

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polypeptide"

<400> 14
Lys Met Ala Leu Arg Val Ala Leu Asn Asn Lys Gln Ser Gly Gln Ile
1 5 10 15

Thr Val Lys Thr Ser Ser Ser Asp His Leu Ser Leu Ala Ile Ala Gly
20 25 30

Leu Val Pro Ile Ala Leu Ser Ile Tyr Gln Lys Phe Lys Pro Gly Val
35 40 45

Ser Pro Ser Tyr Ser Ile Tyr
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<210> 15
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<212> PRT
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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 15
Met Gly Ser Lys Ile Val Gln Val Phe Leu Met Leu Ala Leu Phe Ala
1 5 10 15

Thr Ser Ala Leu Ala
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<210> 16
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peptide"

<400> 16
Met Asn Ser Lys Ala Met Gln Ala Leu Ile Phe Leu Gly Phe Leu Ala
1   5   10   15

Thr Ser Cys Leu Ala
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<210> 17
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<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 17
Met Gly Ala Ala Ala Ser Ile Gln Thr Thr Val Asn
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<210> 18
<211> 11
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<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 18
Phe Ala Leu Leu Gly Thr His Gly Ala Ser Gly
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<210> 19
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<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 19
Arg Arg Arg Thr Phe Leu Lys
1 5

<210> 20
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<212> PRT
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<220>
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<400> 20
Met Gly Gly Lys Trp Ser Lys Ser Ser Val
1 5 10

<210> 21
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<400> 21
Asp Asp Pro Glu Arg Glu
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<220>
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<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 22

Glu Glu Ala Asn Thr Gly Glu Asn Asn Ser Leu Leu His Pro Met Ser
1 5 10 15

<210> 23
<211> 6
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<400> 23
Ser Arg Arg Gly Leu Val
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<210> 24
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<400> 24
Ser Arg Arg Arg Phe Leu
1 5

<210> 25
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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<400> 25
Ser Arg Arg Gln Phe Ile
1 5

<210> 26
<211> 6
<212> PRT
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<220>
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peptide"

<400> 26
Gln Arg Arg Asp Phe Leu
1 5

<210> 27
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 27
Met Asn Lys Ile Tyr Ser Ile Lys Tyr Ser Ala Ala Thr Gly Gly Leu
1 5 10 15

Ile Ala Val Ser Glu Leu Ala Lys Lys Val Ile Cys Lys Thr Asn Arg
20 25 30

Lys Ile Ser Ala Ala Leu Leu Ser Leu Ala Val Ile Ser Tyr Thr Asn
35 40 45

Ile Ile Tyr Ala
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<210> 28
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<212> PRT
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<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 28
Met Asn Pro Asn Gln Lys Ile Ile Thr Ile Gly Ser Ile Cys Met Val
1 5 10 15

Ile Gly Ile Val Ser Leu Met Leu Gln Ile Gly Asn Ile Ile Ser Ile
20 25 30

Trp Val Ser His Ser Ile Gln Thr
35 40

<210> 29
<211> 16
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peptide"

<400> 29
Leu Arg Cys Leu Ala Cys Ser Cys Phe Arg Thr Pro Val Trp Pro Arg
1 5 10 15

<210> 30
<211> 10
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<400> 30
Met Gly Cys Gly Cys Ser Ser His Pro Glu
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<210> 31
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peptide"

<400> 31
Met Pro Phe Val Asn Lys Gln Phe Asn
1 5

<210> 32
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<400> 32
Asp Glu Gln Asn Ala Lys Asn Ala Ala Gln Asp Arg Asn Ser Asn Lys
1 5 10 15

Ser Ser Lys Gly Phe Phe Ser Lys Leu Gly Cys Cys
20 25

<210> 33
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peptide"

<400> 33
Met Leu Cys Cys Met Arg Arg Thr Lys Gln
1 5 10

<210> 34
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peptide"

<400> 34
Val Thr Asn Gly Ser Thr Tyr Ile Leu Val Pro Leu Ser His
1 5 10

<210> 35
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peptide"

<400> 35
Ala Glu Thr Glu Asn Phe Val
1 5

<210> 36
<211> 18
<212> PRT
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<220>
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<400> 36
Arg Ala Arg His Arg Arg Asn Val Asp Arg Val Ser Ile Gly Ser Tyr
1 5 10 15

Arg Thr

<210> 37
<211> 4
<212> PRT

<213> Artificial Sequence

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<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 37
Tyr Glu Asp Gln
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<210> 38
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<213> Artificial Sequence

<220>
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peptide"

<400> 38
Leu Leu Val Thr Ser Leu Leu Leu Cys Glu Leu Pro His Pro Ala Phe
1 5 10 15

Leu Ile Pro

<210> 39
<211> 21
<212> DNA
<213> Artificial Sequence

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primer"

<400> 39
ggagtccact ggcgtcttca c 21

<210> 40
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
primer"

<400> 40
gaggcattgc tgatgatctt gagg 24

<210> 41
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
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primer"

<400> 41
atgagtaaag gagaagaact tttcac 26

<210> 42
<211> 24
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<400> 42
gtccttttac cagacaacca ttac 24

<210> 43
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<213> Artificial Sequence

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oligonucleotide"

<400> 43

gacguaaacg gccacaaguu c 21

<210> 44
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
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oligonucleotide"

<400> 44
acuuguggcc guuuacgucg c 21

<210> 45
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
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<223> /note="Description of Artificial Sequence: Synthetic
oligonucleotide"

<220>
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oligonucleotide"

<400> 45
cuuacgcuga guacuucgat t 21

<210> 46
<211> 21
<212> DNA
<213> Artificial Sequence

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oligonucleotide"

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oligonucleotide"

<400> 46
ucgaaguacu cagcguaagt t 21

<210> 47
<211> 20
<212> DNA
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<220>
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oligonucleotide"

<400> 47
gaagttcgag ggcgacaccc 20

<210> 48
<211> 20
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<220>
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oligonucleotide"

<400> 48
gcactaccag agctaactca 20