

SEQUENCE LISTING

<110> AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH

5 <120> POLYPEPTIDES, NUCLEIC ACIDS AND USES THEREOF

<130> P000177WO1

<150> 61/911,276

10 <151> 2013-12-03

<150> 14/496,600

<151> 2014-09-25

15 <160> 197

<170> PatentIn version 3.5

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<213> Artificial Sequence

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25 <223> Description of Artificial Sequence: Synthetic
ELABELA polypeptide signature sequence

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Lys Leu Tyr Arg His Asn Cys Phe Arg Arg Arg Cys Ile Pro Leu His
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15 Lys Pro His Arg His Ile Cys Pro Gln Arg Arg Cys Met Pro Leu His
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Ser Arg Val Pro Phe Pro
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<213> Ambystoma sp.

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45 metaagattt metaatatggg gataaaatga metaaaacag aagatggttt ttggacaatc
660

tggtcatatt ttmetaatatt gccccgtgtg metaaaaaaga
700

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<211> 849

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<213> *Danio rerio*

55

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5 tatcgccatc tcaaactttg aaaaagttgg agagaccgag agctggctag aactgcgcgt
120

cttctatata actcaactta tacgagatct gagaacactt gctgagagcg acagacacat
180

10 aagaggatth ctacagtccg ttacctgcac atccgacaga atttatcgte tgaggaaccg
240

cggacatcct gtgaggagag tcgagtctgc gccgcggacc aaaccaccct gagcatcacc
300

15 atgagattct tccaccgct gtatctgctg ctgctgctgc tgacagtgct ggtcctcatc
360

20 agcgcagata aacatggtac aaaacacgat tttctcaact tgaggcggaa atatcgaga
420

cacaactgcc cgaagaaacg ctgtctacct cttcactcca gactaccttt cccttgaggt
480

25 tttatgatgc tccgggcaag cattaagaaa aaccaaagac cagccttgga ttggaaatga
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gaaaagatth atgtcagatg tgccgaggac tgthttattc gcacatgtat tgtaatcaaa
600

30 gccatgthtg tcacttctgt agcagaagtg thttttgtth tgthttgtth thtaaatgaa
660

tgtaagtga tgagccatgg agatcctact gctgccaac atgctgcaaa ctcatcactc
720

35 aatcaggthg agttggagca gaatcattgt aaatagtga gactgaatga aatgtgtth
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40 tatgtaagth atgcacttca aatgtththt tattatcttg atttattaaa agtgtattgt
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Anti-ELABELA shRNA sequence A oligonucleotide

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25 Cys

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 1 5 10 15

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      20                25                30

5
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      35                40                45

10 Ser Arg Val Pro Phe Pro
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15  <211> 4
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25  <211> 7
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30  <223> Description of Artificial Sequence: Synthetic
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35  1                5

      <210> 59
      <211> 12
40  <212> PRT
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55  1                5                10

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 <212> PRT
 <213> Homo sapiens

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 1 5 10 15

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<210> 61
 <211> 16
 <212> PRT
 <213> Peromyscus sp.

15

<400> 61
 Cys Phe Arg Arg Arg Cys Val Pro Leu His Ser Arg Val Pro Phe Pro
 1 5 10 15

20

<210> 62
 <211> 16
 <212> PRT
 <213> Rattus sp.

25

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 Cys Phe Arg Arg Arg Cys Ile Ser Leu His Ser Arg Val Pro Phe Pro
 1 5 10 15

30

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 <213> Mus musculus

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 1 5 10 15

40

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 1 5 10 15

50

<210> 65
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55

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1 5 10 15

5 <210> 66
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 <212> PRT
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10 <400> 66
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 1 5 10 15

15 <210> 67
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 <212> PRT
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20 <400> 67
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 1 5 10 15

25 <210> 68
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 <212> PRT
 <213> Gallus gallus

30 <400> 68
 Cys Ser His Arg Arg Cys Met Pro Leu His Ser Arg Val Pro Phe Pro
 1 5 10 15

35 <210> 69
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 <212> PRT
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40 <400> 69
 Cys Ser His Arg Arg Cys Met Pro Leu His Ser Arg Val Pro Phe Pro
 1 5 10 15

45 <210> 70
 <211> 16
 <212> PRT
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50 <400> 70
 Cys Ser His Arg Arg Cys Met Pro Leu His Ser Arg Val Pro Phe Pro
 1 5 10 15

55 <210> 71
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Cys Phe Leu Lys Arg Cys Ile Pro Leu His Ser Arg Val Pro Phe Pro
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10 <213> Ambystoma sp.

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Cys Ser Leu Arg Arg Cys Met Pro Leu His Ser Arg Val Pro Phe Pro
 1 5 10 15

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20 <213> Oryzias sp.

<400> 73

Cys Leu His Arg Arg Cys Met Pro Leu His Ser Arg Val Pro Phe Pro
 1 5 10 15

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<210> 74

<211> 16

<212> PRT

30 <213> Callorhinchus sp.

<400> 74

Cys Trp His Arg Arg Cys Leu Pro Phe His Ser Arg Val Pro Phe Pro
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<211> 16

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40 <213> Oncorhynchus sp.

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<210> 76

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50 <213> Danio rerio

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20 Leu Leu Phe Ile Thr Glu
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25 <210> 81
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30 <400> 81
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35 <210> 82
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Leu Leu Leu Ile His Gly
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10 <213> Sus sp.

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Ala Leu Leu Val Asn Gly
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15 Leu Ala Pro Val Phe Ser
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20 <210> 93
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Xaa His Ser Arg Val Pro Phe Pro
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<400> 96

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1 5 10 15

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Xaa His Ser Arg Val Pro Phe Pro
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His His His His His His

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<212> DNA

<213> Artificial Sequence

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18

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<210> 99

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25 <210> 103
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30 <220>
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40 <210> 104
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45 <220>
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55 <210> 105
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primer

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primer

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25

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5 Arg His Asn Cys Pro Lys Lys Arg Cys Leu Pro Leu His Ser Arg Val
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10 Pro Phe Pro
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25 Ala Gln Ile Asn Met Val Gln Asn Thr Ile Phe Ser Thr
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30 <210> 159
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Pro

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His Ser Arg Val Pro Phe Pro

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50 Leu His Ser Arg Val Pro Phe Pro
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Leu His Ser Arg Val Pro Phe Pro
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30 His Ser Arg Val Pro Phe Pro
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His Ser Arg Val Pro Phe Pro

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<400> 194

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His Ser Arg Val Pro Phe Pro
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His Ser Arg Val Pro Phe Pro
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His Ser Arg Val Pro Phe Pro
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His Ser Arg Val Pro Phe Pro
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