

DE2006-054.txt
SEQUENCE LISTING

<110> Sanofi-Aventis

<120> Single exon genes for novel bio-active polypeptides

<130> DE2006/054

<160> 40

<170> PatentIn version 3.3

<210> 1

<211> 94

<212> PRT

<213> Artificial

<220>

<223> Artificial Hormone Polypeptide

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Leu Gly Leu Ser Arg Val Leu Leu Phe Arg Ala Ser Lys Ala Ser Phe
20 25 30

Thr Phe Leu Ser Leu Arg Phe Ser Leu Ser Val Ala Ala Arg Arg Arg
35 40 45

Ser Thr Asp Thr Asp Phe Leu Leu His Thr Leu His Ala His Gly Arg
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His Trp Pro Gly Gln Cys Ser Gly Val Pro Ser Pro Leu Ser Ser Arg
65 70 75 80

Gly Pro Gly Ala Ser Gly Leu Arg Val Ser Ser Val Arg Ser
85 90

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Ala Ala Ser Ser Gly Ser Glu Asp Ala Leu Ala Ser Ser Ile Ser Val
20 25 30

Lys Leu Ala Leu Glu Leu Ala Glu Val Ala Trp Ser Glu Gly Asp Glu
35 40 45

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Ala Glu Gly Leu Ala Pro Trp Leu Ser Pro Leu Val Gln Gly Arg Asp
50 55 60

Ser Gly Glu Asp Arg Glu Gln Leu Glu Ala Ala Cys Leu Lys Arg Gly
65 70 75 80

Ser Trp Ala Gly Ala Gly Lys Ala Arg Glu Leu Ser Pro Thr Ala Pro
85 90 95

Lys Trp Leu Glu Glu Ala Glu Glu Arg Leu Thr Leu Arg Ser Ile Pro
100 105 110

Leu

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Phe Ser Ser Phe Cys Phe Thr Arg Cys Arg Leu Ser Ile Cys Ser Pro
20 25 30

Ser Ser Ala Thr Leu Ser Ala Cys Phe Phe Leu Arg Val Ala Ala Val
35 40 45

Ala Ser Cys Cys Arg Val Ala Ser Ser Arg Ser Leu Arg Ile Phe Trp
50 55 60

Asn Ser Ala Ser Leu Phe Leu Phe Ile Ser Ile Trp Ala Glu Val Ala
65 70 75 80

Pro Leu Ala Ser Ser Ser Leu Ser Leu Ile Ser Ser Ser Ser Leu Ala
85 90 95

Arg Ser Glu Arg Cys Phe Ser Ile Leu Ala Leu Ser Val Cys Ser Ala
100 105 110

Ser Ile Ser Ser Ser Ser Ser Ser Met Arg Ala
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Lys Ser Val Val Gly Thr Arg Pro Ser Arg Pro Gly Gly Pro Arg Ser
 20 25 30

Ala Trp Arg Arg Arg Arg Ala Thr Leu Ala Ala Trp Thr Gly Pro Ala
 35 40 45

Arg Ala Ala Thr Ala Thr Thr Thr Arg Ala Ala Ala Arg Arg Pro Val
 50 55 60

Ala Ala Arg Thr Pro Ala Arg Leu Ala Ala Thr Ser Arg Ala Thr His
 65 70 75 80

Ala Arg Thr Trp Pro Met Ala Ser Pro Arg Ala Ser Val Thr Thr Cys
 85 90 95

Thr Cys Ala Phe Arg Ala Ala Arg Ala Ser Pro Ala Leu Ser Ser
 100 105 110

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Ala Ala Ala Ala Val Ala Cys Ala Cys Cys Pro Asn Ser Ala Pro Asp
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Phe Phe Met Val Cys Gly Gly His Val Arg Ser Leu Ala Gly Lys Arg
 35 40 45

Leu Phe Ser Ser Pro Pro Arg Pro Ala Cys Ser Gly Pro Asn Asp Leu
 50 55 60

Arg Ser Ser Gly Val Ser Gly Gly Ala Val Arg Pro Ala Ala Arg Thr
 65 70 75 80

Arg Arg Arg Ala Gln Gly Glu Val Glu Glu Glu Ala Ser Cys Gly Glu
 85 90 95

Lys Gly Arg Arg Thr Ala Glu Arg Met Gly Pro Val Ala Ala Ala Arg
 100 105 110

Ala Gly Leu Asp Ala Ala Trp Ala Arg Arg Cys Glu Val Pro Lys Val
115 120 125

Thr Thr Ile Pro Thr Arg Gln Pro Arg Ala Pro Ala Arg Pro Gly Ala
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Pro Arg Arg Ile
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Cys Gly Leu Ser Leu Pro Ser Ile Ser Cys Ala Ser Ser Cys Ser Ala
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Ser Arg Asn Gly Gly Asp Arg Cys Ser Leu Arg Thr Thr Thr Thr Arg
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His Thr Arg
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20 25 30

Leu Leu Val Thr His Ser Leu Trp Ser Ser Thr Trp Ser Pro Pro Gly
35 40 45

Val Ala Ala Val Arg Ser Ala Ser Thr Val Pro Glu Glu Asn Cys Ser
50 55 60

Gly Ser Lys Leu Tyr Val Cys Val Ala Lys Ser Met Asn Ser Pro Ser
65 70 75 80

Met Leu Leu Asp Ser Glu Met Thr Trp Pro Leu Ser Ser Leu Ser Lys
85 90 95

Ala His Trp Arg Val Val Leu Met Arg Ser Asp Leu Gly Arg Ser Ser
100 105 110

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

Leu Arg Thr Glu Pro Leu Asp Glu Val Leu Ala Arg Gly Gly Pro Ala
35 40 45

Ala Ser Thr Leu Trp Cys Arg Cys Arg Leu Trp Pro Lys Ala Ser Leu
50 55 60

Tyr Pro Gly Ala Arg Lys Pro Cys Leu Ala Ala Ser Gly Ser Asp Ser
65 70 75 80

Ser Thr Ser Gly Gly Ser Ala Thr Asp Thr Gly Pro Asp Leu Thr Pro
85 90 95

Trp Lys Glu Val Asp Ser Asp Leu Ser Ala Ser Met Gln Leu Leu Met
100 105 110

Ile Trp Leu Thr Leu Ser Thr Ser Leu Ala Met Val Glu Ile Ser Ala
115 120 125

Thr Glu Leu Trp Leu Ser Gly Pro Gly Arg Pro Ser Ser Gln Ser Leu
130 135 140

Arg Ser Gly Gly Ser Pro Val Arg Thr Ser Met
145 150 155

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 ctcttcaggg cctcgaaggc ctcatcacc ttcttgagcc tgcgcttctc cctcagtgtg 180
 gccgccccgcc gccggtccac ggacaccgac ttctctttac acaccttaca cgcccacggc 240
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 gcctcggggc tcagggtgag ctccgtccgc tcgtagcctg gtggttcgaa gccctggagg 360
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 gaggacgcgc tggcctcgtc tatctcggtg aaattggcgc tggagctggc tgaggtcgcc 180
 tggtcggagg gggacgaagc agagggcttg gcgccgtggc tgcgccgtt ggtgcagggc 240
 agggactcgg gcgaggacag ggagcagctc gaagccgctt gcctgaagcg gggctcctgg 300
 gcgggcgcgg ggaaggcgcg cgagctctcg cccaccgccc caaagtggct ggaggaggcc 360
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 atggcagcgg gatccctgta agag 444

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 cgctgcaggt tgtcaatctg ctccccaagc tcggccacac tatctgcttg cttcttcctc 180
 aggggtggctg ctgtggcttc gtgctgcagg gtggcctcct ccaggctcct gcgcattttc 240
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tcttccagcc tctcgtgat ctctccagt tccctggcca gatctgagcg ctgcttctca	360
atcttggctc tgagcgtgtg ttccgcttca atttctctc ccagctcttc tatgcggggc	420
tgaaaggatt actctatcag gaatgttatt gtggaggagg gggcagcccc cttt	474

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cggccgtctc gcccgggggg ccccgctcg gcctggcgcc gccgccgcgc taccctggca	180
gcctggacgg gcccggcgcg ggccggcagc gcgacgacta caagagcagc agcgaggaga	240
ccggtagcag cgaggacccc agcccgctg gcggccacct cgagggtac ccatgcccgc	300
acctggccta tggcgagccc gagagcttcg gtgacaacct gtacgtgtgc attccgtgcg	360
gcaagggctt cccagctct gagcagctga acgcgcacgt ggaggctcac gtggaggagg	420
aggaagcgct gtacggca	438

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gcctgtgcc ccaactcggc gcccgacttc ttcattgtgt gcggaggtca tgttcgctcc	180
ttagcaggca aacgactttt ctctcgcct ctcgccccg catgttcagg accaaacgat	240
ctgcgtcgt ccggcgtctc tggaggagcc gtgcgcccgg cggcgaggac gaggaggagg	300
gcgcaggggg aggtggagga ggaggcgagc tgcggggaga agggcgagc gacagccgag	360
cgcatggggc cggtaggggc ggcccgggca gggctggatg ctgcctgggc aaggcgggtgc	420
gaggtgccaa aggtcaccac catccccacc cgccagccgc gggcgccggc gcggccgggg	480
gcgccgaggc ggatctgaag gcgctcacgc actcggtgct caagaaactg aaggagcggc	540
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atctcctgtg ccagctcgtg cagtgcctca cggaatggcg gggacagggtg ttcactcagg      180
accaccacca cgcgccacac caggtagttg tgcaggaccc tggggaccag gtgaagccag      240
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aaagtgaagg cagagctgct tttgttggtg ctcttggtca cacactcgct gtggagctcc      180
acgtggagtc cccctggggg ggcagcgggt aggtcagcca gcactgtccc agaggaaaac      240
tgttctggct caaagttgta tgtttggtg gcaaaatcca tgaacagtcc atcaatgctt      300
ctggattcag agatgacgtg gcctttgagt tctctttcca aagcacactg gaggggtggc      360
ttgatgagat ctgatttggg caggtcctcc acagtgatcc ccaaacttga agtatccact      420
gccttggtgt cacttggtt acaactcaac atggcatctc caagtcgagc tcgctttcca      480
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<210> 16

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ccgacggcct cggctcggaa ggcgcggggg ctgcgcacgg agccgctgga cgagggtgctg      180
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agcggcggct ccgcgacgga cacgggcccc gacttgacgc cctggaagga ggtggactcg      360
gacttgagcg cgtcgatgca gttgttgatg atctggttga ccttgccac ctcttggcg      420
atggtggaga tctcggccac cgaactctgg ctgtcggggc ccggccggcc cagctcacag      480

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<210> 25
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 <210> 39
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21