

841-032-PCT SEQ LISTING
SEQUENCE LISTING

<110> Epshtein, Oleg Illich

<120> New Invention Title

<160> 20

<170> BISSAP 1.0

<210> 1

<211> 472

<212> PRT

<213> Homo sapiens

<220>

<221> SOURCE

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Met Lys Ser Ile Leu Asp Gly Leu Ala Asp Thr Thr Phe Arg Thr Ile
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Thr Thr Asp Leu Leu Tyr Val Gly Ser Asn Asp Ile Gln Tyr Glu Asp
20     25     30
Ile Lys Gly Asp Met Ala Ser Lys Leu Gly Tyr Phe Pro Gln Lys Phe
35     40     45
Pro Leu Thr Ser Phe Arg Gly Ser Pro Phe Gln Glu Lys Met Thr Ala
50     55     60
Gly Asp Asn Pro Gln Leu Val Pro Ala Asp Gln Val Asn Ile Thr Glu
65     70     75     80
Phe Tyr Asn Lys Ser Leu Ser Ser Phe Lys Glu Asn Glu Glu Asn Ile
85     90     95
Gln Cys Gly Glu Asn Phe Met Asp Ile Glu Cys Phe Met Val Leu Asn
100    105    110
Pro Ser Gln Gln Leu Ala Ile Ala Val Leu Ser Leu Thr Leu Gly Thr
115    120    125
Phe Thr Val Leu Glu Asn Leu Leu Val Leu Cys Val Ile Leu His Ser
130    135    140
Arg Ser Leu Arg Cys Arg Pro Ser Tyr His Phe Ile Gly Ser Leu Ala
145    150    155    160
Val Ala Asp Leu Leu Gly Ser Val Ile Phe Val Tyr Ser Phe Ile Asp
165    170    175
Phe His Val Phe His Arg Lys Asp Ser Arg Asn Val Phe Leu Phe Lys
180    185    190
Leu Gly Gly Val Thr Ala Ser Phe Thr Ala Ser Val Gly Ser Leu Phe
195    200    205
Leu Thr Ala Ile Asp Arg Tyr Ile Ser Ile His Arg Pro Leu Ala Tyr
210    215    220
Lys Arg Ile Val Thr Arg Pro Lys Ala Val Val Ala Phe Cys Leu Met
225    230    235    240
Trp Thr Ile Ala Ile Val Ile Ala Val Leu Pro Leu Leu Gly Trp Asn
245    250    255
Cys Glu Lys Leu Gln Ser Val Cys Ser Asp Ile Phe Pro His Ile Asp
260    265    270
Glu Thr Tyr Leu Met Phe Trp Ile Gly Val Thr Ser Val Leu Leu Leu
275    280    285
Phe Ile Val Tyr Ala Tyr Met Tyr Ile Leu Trp Lys Ala His Ser His
290    295    300
Ala Val Arg Met Ile Gln Arg Gly Thr Gln Lys Ser Ile Ile Ile His
305    310    315    320
Thr Ser Glu Asp Gly Lys Val Gln Val Thr Arg Pro Asp Gln Ala Arg
325    330    335
Met Asp Ile Arg Leu Ala Lys Thr Leu Val Leu Ile Leu Val Val Leu
340    345    350
Ile Ile Cys Trp Gly Pro Leu Leu Ala Ile Met Val Tyr Asp Val Phe

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      355      360      365
Gly Lys Met Asn Lys Leu Ile Lys Thr Val Phe Ala Phe Cys Ser Met
      370      375      380
Leu Cys Leu Leu Asn Ser Thr Val Asn Pro Ile Ile Tyr Ala Leu Arg
385      390      395      400
Ser Lys Asp Leu Arg His Ala Phe Arg Ser Met Phe Pro Ser Cys Glu
      405      410      415
Gly Thr Ala Gln Pro Leu Asp Asn Ser Met Gly Asp Ser Asp Cys Leu
      420      425      430
His Lys His Ala Asn Asn Ala Ala Ser Val His Arg Ala Ala Glu Ser
      435      440      445
Cys Ile Lys Ser Thr Val Lys Ile Ala Lys Val Thr Met Ser Val Ser
      450      455      460
Thr Asp Thr Ser Ala Glu Ala Leu
465      470

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<210> 2
<211> 360
<212> PRT
<213> Homo sapiens

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Met Glu Glu Cys Trp Val Thr Glu Ile Ala Asn Gly Ser Lys Asp Gly
1      5      10      15
Leu Asp Ser Asn Pro Met Lys Asp Tyr Met Ile Leu Ser Gly Pro Gln
      20      25      30
Lys Thr Ala Val Ala Val Leu Cys Thr Leu Leu Gly Leu Leu Ser Ala
      35      40      45
Leu Glu Asn Val Ala Val Leu Tyr Leu Ile Leu Ser Ser His Gln Leu
      50      55      60
Arg Arg Lys Pro Ser Tyr Leu Phe Ile Gly Ser Leu Ala Gly Ala Asp
65      70      75      80
Phe Leu Ala Ser Val Val Phe Ala Cys Ser Phe Val Asn Phe His Val
      85      90      95
Phe His Gly Val Asp Ser Lys Ala Val Phe Leu Leu Lys Ile Gly Ser
      100      105      110
Val Thr Met Thr Phe Thr Ala Ser Val Gly Ser Leu Leu Leu Thr Ala
      115      120      125
Ile Asp Arg Tyr Leu Cys Leu Arg Tyr Pro Pro Ser Tyr Lys Ala Leu
      130      135      140
Leu Thr Arg Gly Arg Ala Leu Val Thr Leu Gly Ile Met Trp Val Leu
145      150      155      160
Ser Ala Leu Val Ser Tyr Leu Pro Leu Met Gly Trp Thr Cys Cys Pro
      165      170      175
Arg Pro Cys Ser Glu Leu Phe Pro Leu Ile Pro Asn Asp Tyr Leu Leu
      180      185      190
Ser Trp Leu Leu Phe Ile Ala Phe Leu Phe Ser Gly Ile Ile Tyr Thr
      195      200      205
Tyr Gly His Val Leu Trp Lys Ala His Gln His Val Ala Ser Leu Ser
      210      215      220
Gly His Gln Asp Arg Gln Val Pro Gly Met Ala Arg Met Arg Leu Asp
225      230      235      240
Val Arg Leu Ala Lys Thr Leu Gly Leu Val Leu Ala Val Leu Leu Ile
      245      250      255
Cys Trp Phe Pro Val Leu Ala Leu Met Ala His Ser Leu Ala Thr Thr
      260      265      270
Leu Ser Asp Gln Val Lys Lys Ala Phe Ala Phe Cys Ser Met Leu Cys
      275      280      285
Leu Ile Asn Ser Met Val Asn Pro Val Ile Tyr Ala Leu Arg Ser Gly
290      295      300
Glu Ile Arg Ser Ser Ala His His Cys Leu Ala His Trp Lys Lys Cys

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305 Val Arg Gly Leu Gly Ser Glu Ala Lys Glu Glu Ala Pro Arg Ser Ser
310 315 320
Val Thr Glu Thr Glu Ala Asp Gly Lys Ile Thr Pro Trp Pro Asp Ser
325 330 335
Arg Asp Leu Asp Leu Ser Asp Cys
340 345 350 355 360

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 1 5 10 15
 Ser Ile Ile Ile His Thr Ser Glu Asp Gly Lys Val Gln Val Thr Arg
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 Pro Asp Gln Ala Arg Met Asp Ile Arg Leu Ala Lys Thr
 35 40 45

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 Asn Ile Gln Cys Gly Glu Asn Phe Met Asp Ile Glu Cys Phe Met Val
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 Leu Asn Pro Ser
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 <212> PRT
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 Ala Asn

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841-032-PCT SEQ LISTING

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 Ile Thr Glu Phe Tyr Asn Lys Ser Leu Ser Ser Phe Lys Glu Asn Glu
 20 25 30
 Glu Asn Ile Gln Cys Gly Glu Asn Phe Met Asp Ile Glu Cys Phe Met
 35 40 45
 Val Leu Asn
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 Ile Gln Cys Gly Glu Asn Phe Met Asp Ile Glu Cys Phe Met Val Leu
 20 25 30
 Asn Pro Ser Gln Gln Leu Ala Ile Ala Val Leu Ser Leu Thr Leu
 35 40 45

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841-032-PCT SEQ LISTING

<220>
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 <213> Homo sapiens

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 Trp Asn

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 <212> PRT
 <213> Bos taurus

<220>
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 <223> /mol_type="protein"
 /organism="Bos taurus"

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 20 25 30
 Leu Lys Glu Leu Ile Asn Asn Glu Leu Ser His Phe Leu Glu Glu Ile
 35 40 45
 Lys Glu Gln Glu Val Val Asp Lys Val Met Glu Thr Leu Asp Ser Asp
 50 55 60

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Gly Asp Gly Glu Cys Asp Phe Gln Glu Phe Met Ala Phe Val Ala Met
 65 70 75 80
 Ile Thr Thr Ala Cys His Glu Phe Phe Glu His Glu
 85 90

<210> 18
 <211> 92
 <212> PRT
 <213> Homo sapiens

<220>
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 Gln Tyr Ser Gly Arg Glu Gly Asp Lys His Lys Leu Lys Lys Ser Glu
 20 25 30
 Leu Lys Glu Leu Ile Asn Asn Glu Leu Ser His Phe Leu Glu Glu Ile
 35 40 45
 Lys Glu Gln Glu Val Val Asp Lys Val Met Glu Thr Leu Asp Asn Asp
 50 55 60
 Gly Asp Gly Glu Cys Asp Phe Gln Glu Phe Met Ala Phe Val Ala Met
 65 70 75 80
 Val Thr Thr Ala Cys His Glu Phe Phe Glu His Glu
 85 90

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 <213> Homo sapiens

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 20 25 30
 Glu Leu Lys Glu Leu Leu Gln Thr Glu Leu Ser Gly Phe Leu Asp Ala
 35 40 45
 Gln Lys Asp Val Asp Ala Val Asp Lys Val Met Lys Glu Leu Asp Glu
 50 55 60
 Asn Gly Asp Gly Glu Val Asp Phe Gln Glu Tyr Val Val Leu Val Ala
 65 70 75 80
 Ala Leu Thr Val Ala Cys Asn Asn Phe Phe Trp Glu Asn Ser
 85 90

<210> 20
 <211> 94
 <212> PRT
 <213> Bos taurus

<220>
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 /organism="Bos taurus"

<400> 20

841-032-PCT SEQ LISTING

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His	Ala	His	Ser	Gly	Lys	Glu	Gly	Asp	Lys	Tyr	Lys	Leu	Ser	Lys	Lys
			20					25					30		
Glu	Leu	Lys	Glu	Leu	Leu	Gln	Thr	Glu	Leu	Ser	Gly	Phe	Leu	Asp	Ala
		35					40					45			
Gln	Lys	Asp	Ala	Asp	Ala	Val	Asp	Lys	Val	Met	Lys	Glu	Leu	Asp	Glu
	50					55					60				
Asn	Gly	Asp	Gly	Glu	Val	Asp	Phe	Gln	Glu	Tyr	Val	Val	Leu	Val	Ala
65					70					75					80
Ala	Leu	Thr	Val	Ala	Cys	Asn	Asn	Phe	Phe	Trp	Glu	Asn	Ser		
				85					90						