

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

<222> 1..472

<223> /mol_type="protein"
/organism="Homo sapiens"

<400> 1

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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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Gly Lys 355 Met Asn Lys Leu Ile Lys 360 Thr Val Phe Ala 365 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

<210> 2

<211> 360

<212> PRT

<213> Homo sapiens

<220>

<221> SOURCE

<222> 1..360

 <223> /mol_type="protein"
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 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 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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305 310 315 320
Val Arg Gly Leu Gly Ser Glu Ala Lys Glu Glu Ala Pro Arg Ser Ser
325 330 335
Val Thr Glu Thr Glu Ala Asp Gly Lys Ile Thr Pro Trp Pro Asp Ser
340 345 350
Arg Asp Leu Asp Leu Ser Asp Cys
355 360

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<212> PRT
<213> Homo sapiens

<220>
<221> SOURCE
<222> 1..19
<223> /mol_type="protein"
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Glu Lys Leu Gln Ser Val Cys Ser Asp Ile Phe Pro His Ile Asp Glu
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Thr Tyr Leu

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<213> Homo sapiens

<220>
<221> SOURCE
<222> 1..10
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Gln Arg Gly Thr Gln Lys Ser Ile Ile Ile
1 5 10

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<213> Homo sapiens

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<222> 1..29
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Gly Lys Val Gln Val Thr Arg Pro Asp Gln Ala Arg Met
20 25

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841-032-PCT SEQ LISTING

<400> 6
 Lys Ala His Ser His Ala Val Arg Met Ile Gln Arg Gly Thr Gln Lys
 1 5 10 15
 Ser Ile Ile Ile His Thr Ser Glu Asp Gly Lys Val Gln Val Thr Arg
 20 25 30
 Pro Asp Gln Ala Arg Met Asp Ile Arg Leu Ala Lys Thr
 35 40 45

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<400> 7
 Met Ser Val Ser Thr Asp Thr Ser Ala Glu Ala Leu
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<400> 8
 Thr Glu Phe Tyr Asn Lys Ser Leu Ser Ser Phe Lys Glu Asn Glu Glu
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 Asn Ile Gln Cys Gly Glu Asn Phe Met Asp Ile Glu Cys Phe Met Val
 20 25 30
 Leu Asn Pro Ser
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<210> 9
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 <212> PRT
 <213> Homo sapiens

<220>
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 <222> 1..18
 <223> /mol_type="protein"
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<400> 9
 Gln Pro Leu Asp Asn Ser Met Gly Asp Ser Asp Cys Leu His Lys His
 1 5 10 15
 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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<212> PRT

<213> Homo sapiens

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<222> 1..14

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<400> 12

Val Val Ala Phe Cys Leu Met Trp Thr Ile Ala Ile Val Ile
1 5 10

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<212> PRT

<213> Homo sapiens

<220>

<221> SOURCE

<222> 1..47

<223> /mol_type="protein"
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<400> 13

Glu Phe Tyr Asn Lys Ser Leu Ser Ser Phe Lys Glu Asn Glu Glu 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

<210> 14

<211> 9

<212> PRT

<213> Homo sapiens

841-032-PCT SEQ LISTING

<220>
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 <222> 1..9
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<400> 14
 Asn Glu Glu Asn Ile Gln Cys Gly Glu
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 <213> Homo sapiens

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 Trp Asn

<210> 17
 <211> 92
 <212> PRT
 <213> Bos taurus

<220>
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 <222> 1..92
 <223> /mol_type="protein"
 /organism="Bos taurus"

<400> 17
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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

841-032-PCT SEQ LISTING

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
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<220>
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 1 5 10 15
 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 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

<210> 19
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 <212> PRT
 <213> Homo sapiens

<220>
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 <222> 1..94
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 /organism="Homo sapiens"

<400> 19
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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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 <222> 1..94
 <223> /mol_type="protein"
 /organism="Bos taurus"

<400> 20

841-032-PCT SEQ LISTING

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1				5				10						15	
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						