

eolf-seql
SEQUENCE LISTING

<110> immatics biotechnologies GmbH

<120> Novel immunotherapy against several tumors of the blood, such as acute myeloid leukemia (AML)

<130> I32566W0

<150> GB 1408255.6

<151> 2014-05-09

<150> US 61/990,980

<151> 2014-05-09

<160> 607

<170> PatentIn version 3.5

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eolf-seql

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Arg Val Met Pro Ser Ser Phe Phe Leu
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Tyr Glu Leu Asp Leu Arg Glu Pro Ala Leu
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Gly Ala Tyr Gly Lys Val Phe Leu Val
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Asp His Asp Leu Leu Lys Asn Phe
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Glu Glu Leu Gln Leu Ile Arg Gln Ala
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Ala Ala Glu Leu Leu Lys His Pro Phe
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Gly Arg Val Lys Leu Ser Asp Phe Gly Phe
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Lys Ser Asn Ser Ile Ile Val Ser Pro Arg
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Glu Thr Leu Glu Arg Leu Gln Glu Leu
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Lys Asp Asp Glu Leu Ser Arg Gln
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Leu Gln Gln Thr Asn Ser Glu Lys Ile
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Gly Glu Phe Gly Lys Pro Tyr Phe Ile
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Lys Asp Val Lys Val Val Ile Leu
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Arg Pro Val Pro Pro Pro Pro Ser Leu

eolf-seql

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His Tyr Thr Ile Val Phe Asn Thr Phe
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Glu Val Ile Glu Thr Glu Lys Thr Leu Tyr
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Met Lys Ile Leu Asn His Pro Asn Ile
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His Glu Ile Asp Arg Tyr Thr Ala Ile
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eolf-seql

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Leu Lys Ala Val Pro Ser Gln Lys Arg Thr
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Ser Leu Ile Ala Val Phe Gln Lys Tyr
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eolf-seql

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Leu Leu Glu Gln Lys Val Trp Glu Val
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Ser Glu Ile Ala Glu Ser His Arg Phe
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Tyr Leu Ala Ile Gly Ile His Glu Leu
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Ala His Val Ile Asp Lys Phe Leu Leu
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Glu Ala Ile Lys Ala Leu Glu Val
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Glu Val Ala Ser Ala Lys Gln Ser Val Lys Tyr
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Ile Glu Phe Thr Tyr Thr Ala Lys Leu
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Leu Leu Ala Asp Ile Thr Ser Lys Tyr
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Val Leu Val Asp Arg Thr Ile Tyr Ile
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Ile Pro Val Val His Ala Ser Ile
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Leu Pro Asp Asp Lys Val Thr Ala Leu
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Lys Ile Ala Lys Gln Ile Val Gln Lys
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Glu His Leu Arg Lys Leu Glu Ala Glu
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Arg Phe Ile Pro Glu Leu Ile Asn Phe
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Thr Glu Lys Ile Ala Gln Leu Phe
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Gly Pro Gln Glu Gly Asn Gly Pro Ser Leu Phe
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Tyr Leu Leu Gln Arg Ala Val Glu Val
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Phe Ala Ala Leu His Gly Pro Ala Leu
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Arg Met Ala Asn Leu Met Gly Ile Glu Phe

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eolf-seql

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Lys Glu Lys Pro Ala Glu Asn Thr Leu
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Asn Glu Phe Gln Ser Gln Gln Asn Ile
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Asn Val Ile Asp Tyr Gly His Ala Ser Lys Tyr
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Phe Ala Lys Ser Gln Ser Lys Thr Phe
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Ala Pro Asn Tyr Arg Leu Lys Ser Leu
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Ile Leu Lys Asp Met Gly Ile Thr Glu Tyr
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Ala His Asp Asp Gly Arg Trp Ser Leu
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Lys Tyr Leu Thr Ala Glu Ala Phe Gly Phe
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Glu Ser Ala Ala Leu Ile His His Tyr
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Glu Thr Ile Asp Ser Arg Val Gln Glu Tyr
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Gly Thr Leu Ser Gly Gly Ile Leu Ser Ser Gly Lys
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Gly Val Pro Ile Met Leu Ala Tyr
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eolf-seql

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His Ser Ile Asp Lys Val Thr Ser Arg
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Val Ser Asn Pro Lys Ser Phe Glu Tyr
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Gly Leu Gly Pro Thr Phe Lys Leu
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eolf-seql

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Tyr Leu Asp Phe Thr Asn Pro Lys Val
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eolf-seql

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Lys Thr Thr Asp Thr Val Ser Ser Phe
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eolf-seql

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Thr Tyr Val Ser Gly Met Leu Arg Phe
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Gly Leu Asp Pro Ser Gln Arg Pro Lys
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eolf-seql

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His Glu Tyr Thr Thr Lys Glu Val Phe
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Ser Ile Ala Ala Lys Ile Leu Ser Tyr
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Lys Glu Leu Leu Ala Val Lys Leu

eolf-seql

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eolf-seql

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Glu Val Ala Lys Phe Leu Ser Phe Tyr
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Val Glu Phe Pro His Ser Pro Glu Ile
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Asp Ile Lys Pro Tyr Ile Ala Glu Tyr
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Ser Glu Asn Pro Ser Lys His Asp Ser Phe
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eolf-seql

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 1 5

<210> 440
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<400> 440

Glu Leu Thr Leu Gly Glu Phe Leu Lys Leu
 1 5 10

<210> 441
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<400> 441

Leu Thr Leu Gly Glu Phe Leu Lys
 1 5

<210> 442
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<400> 442

Leu Thr Leu Gly Glu Phe Leu Lys Leu
 1 5

<210> 443
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<400> 443

eolf-seql

Thr Leu Gly Glu Phe Leu Lys Leu
1 5

<210> 444
<211> 10
<212> PRT
<213> Homo sapiens

<400> 444

Lys Thr Tyr Thr Lys Ser Ser His Leu Lys
1 5 10

<210> 445
<211> 9
<212> PRT
<213> Homo sapiens

<400> 445

Ser Gln Leu Thr Thr Leu Ser Phe Tyr
1 5

<210> 446
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<213> Homo sapiens

<400> 446

Lys Met Gln Glu Lys Lys Lys Leu Gln
1 5

<210> 447
<211> 9
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<213> Homo sapiens

<400> 447

Leu Leu Gly His Leu Pro Ala Glu Ile
1 5

<210> 448
<211> 16
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<213> Homo sapiens

eolf-seql

<400> 448

Ala Pro Val Glu Leu Ile Leu Ser Asp Glu Thr Leu Pro Ala Pro Glu
1 5 10 15

<210> 449

<211> 17

<212> PRT

<213> Homo sapiens

<400> 449

Glu Thr Pro Asp Phe Gln Leu Phe Lys Asn Gly Val Ala Gln Glu Pro
1 5 10 15

Val

<210> 450

<211> 15

<212> PRT

<213> Homo sapiens

<400> 450

Leu Ala Pro Leu Glu Gly Ala Arg Phe Ala Leu Val Arg Glu Asp
1 5 10 15

<210> 451

<211> 16

<212> PRT

<213> Homo sapiens

<400> 451

Ser Pro Asp Arg Ile Phe Phe His Leu Asn Ala Val Ala Leu Gly Asp
1 5 10 15

<210> 452

<211> 17

<212> PRT

<213> Homo sapiens

<400> 452

Ser Pro Asp Arg Ile Phe Phe His Leu Asn Ala Val Ala Leu Gly Asp

eolf-seql

1 5 10 15

Gly

<210> 453
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 453

Glu Glu Met Arg Lys Leu Gln Ala Thr Val Gln Glu Leu Gln Lys Arg
 1 5 10 15

<210> 454
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 <212> PRT
 <213> Homo sapiens

<400> 454

Glu Glu Pro Leu Ser Leu Gln Glu Leu Asp Thr Ser Ser Gly
 1 5 10

<210> 455
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 455

Glu Met Arg Lys Leu Gln Ala Thr Val Gln Glu Leu Gln Lys Arg
 1 5 10 15

<210> 456
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 456

His Leu Glu Glu Pro Leu Ser Leu Gln Glu Leu Asp Thr Ser Ser Gly
 1 5 10 15

<210> 457

eolf-seql

<211> 15
 <212> PRT
 <213> Homo sapiens

<400> 457

Leu	Glu	Glu	Pro	Leu	Ser	Leu	Gln	Glu	Leu	Asp	Thr	Ser	Ser	Gly
1				5					10					15

<210> 458
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 <212> PRT
 <213> Homo sapiens

<400> 458

Ala	Gly	Thr	Val	Arg	Arg	Gln	Ala	Val	Asp	Val	Ser	Pro	Leu	Arg
1				5					10					15

<210> 459
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 <212> PRT
 <213> Homo sapiens

<400> 459

Ile	Gly	Arg	Ala	Gly	Thr	Val	Arg	Arg	Gln	Ala	Val	Asp	Val	Ser	Pro
1				5					10					15	

Leu Arg

<210> 460
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 460

Arg	Ala	Gly	Thr	Val	Arg	Arg	Gln	Ala	Val	Asp	Val	Ser	Pro	Leu	Arg
1				5					10					15	

<210> 461
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 <212> PRT
 <213> Homo sapiens

eolf-seql

<400> 461

Thr	Val	Arg	Arg	Gln	Ala	Val	Asp	Val	Ser	Pro	Leu	Arg
1				5					10			

<210> 462

<211> 15

<212> PRT

<213> Homo sapiens

<400> 462

Gly	Val	Val	His	Ser	Phe	Ser	His	Asn	Val	Gly	Pro	Gly	Asp	Lys
1				5					10					15

<210> 463

<211> 16

<212> PRT

<213> Homo sapiens

<400> 463

Gly	Val	Val	His	Ser	Phe	Ser	His	Asn	Val	Gly	Pro	Gly	Asp	Lys	Tyr
1				5					10					15	

<210> 464

<211> 17

<212> PRT

<213> Homo sapiens

<400> 464

Gly	Val	Val	His	Ser	Phe	Ser	His	Asn	Val	Gly	Pro	Gly	Asp	Lys	Tyr
1				5					10					15	

Thr

<210> 465

<211> 16

<212> PRT

<213> Homo sapiens

<400> 465

Lys	Thr	Glu	Glu	Phe	Glu	Val	Thr	Lys	Thr	Ala	Val	Ala	His	Arg	Pro
1				5					10					15	

eolf-seql

<210> 466
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 466

Lys	Thr	Glu	Glu	Phe	Glu	Val	Thr	Lys	Thr	Ala	Val	Ala	His	Arg	Pro
1				5				10						15	

Gly

<210> 467
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 467

Val	Arg	Pro	Gly	Gly	Val	Val	His	Ser	Phe	Ser	His	Asn	Val	Gly	Pro
1				5				10						15	

Gly Asp Lys

<210> 468
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 468

Val	Arg	Pro	Gly	Gly	Val	Val	His	Ser	Phe	Ser	His	Asn	Val	Gly	Pro
1				5				10						15	

Gly Asp Lys Tyr Thr
 20

<210> 469
 <211> 17
 <212> PRT
 <213> Homo sapiens

eolf-seql

<400> 469

Ala	Glu	Lys	Gly	Val	Arg	Thr	Leu	Thr	Ala	Ala	Ala	Val	Ser	Gly	Ala
1				5					10					15	

Gln

<210> 470

<211> 17

<212> PRT

<213> Homo sapiens

<400> 470

Ala	Gln	Pro	Ile	Leu	Ser	Lys	Leu	Glu	Pro	Gln	Ile	Ala	Ser	Ala	Ser
1				5					10					15	

Glu

<210> 471

<211> 16

<212> PRT

<213> Homo sapiens

<400> 471

Glu	Lys	Gly	Val	Arg	Thr	Leu	Thr	Ala	Ala	Ala	Val	Ser	Gly	Ala	Gln
1				5					10					15	

<210> 472

<211> 17

<212> PRT

<213> Homo sapiens

<400> 472

Glu	Lys	Gly	Val	Arg	Thr	Leu	Thr	Ala	Ala	Ala	Val	Ser	Gly	Ala	Gln
1				5					10					15	

Pro

<210> 473

eolf-seql

<211> 14
 <212> PRT
 <213> Homo sapiens

<400> 473

Gly	Val	Arg	Thr	Leu	Thr	Ala	Ala	Ala	Val	Ser	Gly	Ala	Gln
1				5					10				

<210> 474
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 474

Lys	Gly	Val	Arg	Thr	Leu	Thr	Ala	Ala	Ala	Val	Ser	Gly	Ala	Gln
1				5					10					15

<210> 475
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 475

Asp	Val	Asn	Glu	Tyr	Ala	Pro	Val	Phe	Lys	Glu	Lys	Ser	Tyr	Lys
1				5					10					15

<210> 476
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 476

His	Arg	Ser	Phe	Val	Asp	Leu	Ser	Gly	His	Asn	Leu	Ala
1				5					10			

<210> 477
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 477

His	Arg	Ser	Phe	Val	Asp	Leu	Ser	Gly	His	Asn	Leu	Ala	Asn	Pro	His
1				5					10					15	

eolf-seql

<210> 478
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 478

His	Arg	Ser	Phe	Val	Asp	Leu	Ser	Gly	His	Asn	Leu	Ala	Asn	Pro	His
1				5					10					15	

Pro

<210> 479
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 479

Ala	Leu	Pro	Glu	Phe	Asp	Gly	Lys	Arg	Phe	Gln	Asn	Val	Ala	Lys	Glu
1				5					10					15	

Gly

<210> 480
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 480

Asp	Ser	Asn	Glu	Phe	Ser	Val	Ile	Ala	Asp	Pro	Arg	Gly
1				5					10			

<210> 481
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 481

Asp	Ser	Asn	Glu	Phe	Ser	Val	Ile	Ala	Asp	Pro	Arg	Gly	Asn
1				5					10				

eolf-seql

<210> 482
<211> 15
<212> PRT
<213> Homo sapiens

<400> 482

Asp	Ser	Asn	Glu	Phe	Ser	Val	Ile	Ala	Asp	Pro	Arg	Gly	Asn	Thr
1				5					10					15

<210> 483
<211> 16
<212> PRT
<213> Homo sapiens

<400> 483

Asp	Ser	Asn	Glu	Phe	Ser	Val	Ile	Ala	Asp	Pro	Arg	Gly	Asn	Thr	Leu
1				5					10					15	

<210> 484
<211> 17
<212> PRT
<213> Homo sapiens

<400> 484

Asp	Ser	Asn	Glu	Phe	Ser	Val	Ile	Ala	Asp	Pro	Arg	Gly	Asn	Thr	Leu
1				5					10					15	

Gly

<210> 485
<211> 13
<212> PRT
<213> Homo sapiens

<400> 485

Pro	Glu	Phe	Asp	Gly	Lys	Arg	Phe	Gln	Asn	Val	Ala	Lys
1				5					10			

<210> 486
<211> 18

eolf-seql

<212> PRT
<213> Homo sapiens

<400> 486

Ser	Asp	Ser	Asn	Glu	Phe	Ser	Val	Ile	Ala	Asp	Pro	Arg	Gly	Asn	Thr
1				5					10					15	

Leu Gly

<210> 487
<211> 16
<212> PRT
<213> Homo sapiens

<400> 487

Ser	Gln	Lys	Lys	Thr	Phe	Glu	Ile	Asn	Pro	Arg	His	Pro	Leu	Ile	Arg
1				5					10					15	

<210> 488
<211> 17
<212> PRT
<213> Homo sapiens

<400> 488

Ala	Leu	Pro	Glu	Phe	Asp	Gly	Lys	Arg	Phe	Gln	Asn	Val	Ala	Lys	Glu
1				5					10					15	

Gly

<210> 489
<211> 13
<212> PRT
<213> Homo sapiens

<400> 489

Pro	Glu	Phe	Asp	Gly	Lys	Arg	Phe	Gln	Asn	Val	Ala	Lys
1				5					10			

<210> 490
<211> 14

eolf-seql

<212> PRT
<213> Homo sapiens

<400> 490

Pro	Glu	Phe	Asp	Gly	Lys	Arg	Phe	Gln	Asn	Val	Ala	Lys	Glu
1				5					10				

<210> 491
<211> 15
<212> PRT
<213> Homo sapiens

<400> 491

Leu	Asn	Ser	Leu	Thr	Tyr	Gln	Val	Leu	Asp	Val	Gln	Arg	Tyr	Pro
1				5					10					15

<210> 492
<211> 13
<212> PRT
<213> Homo sapiens

<400> 492

Leu	Pro	Gln	Leu	Val	Gly	Val	Ser	Thr	Pro	Leu	Gln	Gly
1				5					10			

<210> 493
<211> 14
<212> PRT
<213> Homo sapiens

<400> 493

Leu	Pro	Gln	Leu	Val	Gly	Val	Ser	Thr	Pro	Leu	Gln	Gly	Gly
1				5					10				

<210> 494
<211> 15
<212> PRT
<213> Homo sapiens

<400> 494

Leu	Pro	Gln	Leu	Val	Gly	Val	Ser	Thr	Pro	Leu	Gln	Gly	Gly	Ser
1				5					10					15

eolf-seql

<210> 495
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 495

Arg	Leu	Pro	Gln	Leu	Val	Gly	Val	Ser	Thr	Pro	Leu	Gln	Gly	Gly	Ser
1				5					10					15	

<210> 496
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 496

Ser	Asp	Val	Asp	Leu	Ile	Pro	Met	Asn	Asp	His	Asn	Ala	Tyr	Arg
1				5					10					15

<210> 497
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 497

Gly	Arg	Arg	Lys	Ser	Arg	Gln	Gly	Ser	Leu	Ala	Met	Glu	Glu	Leu	Lys
1				5					10					15	

<210> 498
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 498

Arg	Lys	Ser	Arg	Gln	Gly	Ser	Leu	Ala	Met	Glu	Glu	Leu	Lys
1				5					10				

<210> 499
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 499

eolf-seql

Ser Gly Pro Ser Leu Lys Gly Glu Glu Glu Pro Leu Val Ala Ser Glu
1 5 10 15

Asp Gly Ala Val Asp
20

<210> 500
<211> 23
<212> PRT
<213> Homo sapiens

<400> 500

Ser Gly Ser Gly Pro Ser Leu Lys Gly Glu Glu Glu Pro Leu Val Ala
1 5 10 15

Ser Glu Asp Gly Ala Val Asp
20

<210> 501
<211> 15
<212> PRT
<213> Homo sapiens

<400> 501

Ile Lys Pro Gly Val Thr Thr Glu Glu Ile Asp His Ala Val His
1 5 10 15

<210> 502
<211> 14
<212> PRT
<213> Homo sapiens

<400> 502

Lys Pro Gly Val Thr Thr Glu Glu Ile Asp His Ala Val His
1 5 10

<210> 503
<211> 12
<212> PRT
<213> Homo sapiens

<400> 503

eolf-seql

Asp Gly Val Leu Arg Ile Gln Asn Leu Asp Gln Ser
1 5 10

<210> 504
<211> 14
<212> PRT
<213> Homo sapiens

<400> 504

Gly Ala Tyr Phe His Asp Asp Gly Phe Leu Ala Phe Pro Gly
1 5 10

<210> 505
<211> 16
<212> PRT
<213> Homo sapiens

<400> 505

Thr Pro Tyr Ser Phe Leu Pro Leu Pro Thr Ile Lys Asp Ala Tyr Arg
1 5 10 15

<210> 506
<211> 17
<212> PRT
<213> Homo sapiens

<400> 506

Tyr Pro Thr Pro Asp Ile Ser Trp Ser Lys Leu Asp Gly Ser Leu Pro
1 5 10 15

Pro

<210> 507
<211> 18
<212> PRT
<213> Homo sapiens

<400> 507

Tyr Pro Thr Pro Asp Ile Ser Trp Ser Lys Leu Asp Gly Ser Leu Pro
1 5 10 15

eolf-seql

Pro Asp

<210> 508
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 508

Ala Ser His Phe Glu Gln Met Ala Ala Ala Ser Met His Arg
 1 5 10

<210> 509
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 509

Gly Gly Gln Val Ile Val Ala Ile Pro Lys Leu Gln Thr Gln Gln
 1 5 10 15

<210> 510
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 510

Gly Gln Val Ile Val Ala Ile Pro Lys Leu Gln Thr Gln
 1 5 10

<210> 511
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 511

Gly Gln Val Ile Val Ala Ile Pro Lys Leu Gln Thr Gln Gln
 1 5 10

<210> 512
 <211> 14
 <212> PRT
 <213> Homo sapiens

eolf-seql

<400> 512

Ile	Glu	Ser	Thr	Phe	Asp	Val	Val	Ser	Ser	Lys	Pro	Val	Gly
1				5					10				

<210> 513

<211> 16

<212> PRT

<213> Homo sapiens

<400> 513

Asp	Trp	Gly	Ala	Leu	Ala	Thr	Ile	Ser	Thr	Leu	Glu	Ala	Val	Arg	Gly
1				5					10					15	

<210> 514

<211> 16

<212> PRT

<213> Homo sapiens

<400> 514

Gly	Arg	Pro	Phe	Ala	Asp	Val	Leu	Ser	Leu	Ser	Asp	Gly	Pro	Pro	Gly
1				5					10					15	

<210> 515

<211> 14

<212> PRT

<213> Homo sapiens

<400> 515

Trp	Gly	Ala	Leu	Ala	Thr	Ile	Ser	Thr	Leu	Glu	Ala	Val	Arg
1				5					10				

<210> 516

<211> 15

<212> PRT

<213> Homo sapiens

<400> 516

Trp	Gly	Ala	Leu	Ala	Thr	Ile	Ser	Thr	Leu	Glu	Ala	Val	Arg	Gly
1				5					10					15

<210> 517

eolf-seql

<211> 13
 <212> PRT
 <213> Homo sapiens

<400> 517

Ala	Asp	Glu	Leu	Ala	Leu	Val	Asp	Val	Ile	Glu	Asp	Lys
1				5					10			

<210> 518
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 518

Gly	Val	Ser	Leu	Lys	Thr	Leu	His	Pro	Asp	Leu	Gly	Thr	Asp	Lys
1				5					10					15

<210> 519
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 519

Ile	Val	Ser	Gly	Lys	Asp	Tyr	Asn	Val	Thr	Ala	Asn	Ser	Lys	Leu
1				5					10					15

<210> 520
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 520

Asp	Asp	Asn	Ile	Lys	Thr	Tyr	Ser	Asp	His	Pro	Glu	Lys
1				5					10			

<210> 521
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 521

Asp	Lys	Val	Tyr	Val	His	Leu	Lys	Asn	Leu	Ala	Ser	Arg	Pro	Tyr
1				5					10					15

eolf-seql

<210> 522
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 522

Gly	Asp	Lys	Val	Tyr	Val	His	Leu	Lys	Asn	Leu	Ala	Ser	Arg	Pro	Tyr
1				5					10					15	

<210> 523
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 523

Leu	Asp	Asp	Asn	Ile	Lys	Thr	Tyr	Ser	Asp	His	Pro	Glu	Lys
1				5					10				

<210> 524
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 524

Thr	Gly	Asp	Lys	Val	Tyr	Val	His	Leu	Lys	Asn	Leu	Ala	Ser	Arg	Pro
1				5					10					15	

Tyr

<210> 525
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 525

Val	Tyr	Val	His	Leu	Lys	Asn	Leu	Ala	Ser	Arg	Pro	Tyr
1				5					10			

<210> 526
 <211> 19

eolf-seql

<212> PRT
<213> Homo sapiens

<400> 526

Lys	Thr	Ser	Arg	Leu	Pro	Ile	Ile	Asp	Val	Ala	Pro	Leu	Asp	Val	Gly
1				5					10					15	

Ala Pro Asp

<210> 527
<211> 21
<212> PRT
<213> Homo sapiens

<400> 527

Lys	Thr	Ser	Arg	Leu	Pro	Ile	Ile	Asp	Val	Ala	Pro	Leu	Asp	Val	Gly
1				5					10					15	

Ala Pro Asp Gln Glu
20

<210> 528
<211> 15
<212> PRT
<213> Homo sapiens

<400> 528

Leu	Pro	Ile	Ile	Asp	Val	Ala	Pro	Leu	Asp	Val	Gly	Ala	Pro	Asp
1				5					10					15

<210> 529
<211> 16
<212> PRT
<213> Homo sapiens

<400> 529

Arg	Leu	Pro	Ile	Ile	Asp	Val	Ala	Pro	Leu	Asp	Val	Gly	Ala	Pro	Asp
1				5					10					15	

<210> 530
<211> 18

eolf-seql

<212> PRT
<213> Homo sapiens

<400> 530

Arg	Leu	Pro	Ile	Ile	Asp	Val	Ala	Pro	Leu	Asp	Val	Gly	Ala	Pro	Asp
1				5					10					15	

Gln Glu

<210> 531
<211> 17
<212> PRT
<213> Homo sapiens

<400> 531

Ser	Arg	Leu	Pro	Ile	Ile	Asp	Val	Ala	Pro	Leu	Asp	Val	Gly	Ala	Pro
1				5					10					15	

Asp

<210> 532
<211> 19
<212> PRT
<213> Homo sapiens

<400> 532

Ser	Arg	Leu	Pro	Ile	Ile	Asp	Val	Ala	Pro	Leu	Asp	Val	Gly	Ala	Pro
1				5					10					15	

Asp Gln Glu

<210> 533
<211> 18
<212> PRT
<213> Homo sapiens

<400> 533

Thr	Ser	Arg	Leu	Pro	Ile	Ile	Asp	Val	Ala	Pro	Leu	Asp	Val	Gly	Ala
1				5					10					15	

eolf-seql

Pro Asp

<210> 534
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 534

Thr	Ser	Arg	Leu	Pro	Ile	Ile	Asp	Val	Ala	Pro	Leu	Asp	Val	Gly	Ala
1				5					10					15	

Pro Asp Gln Glu
 20

<210> 535
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 535

Asp	Thr	Ser	Tyr	Val	Ser	Leu	Lys	Ala	Pro	Leu	Thr
1				5					10		

<210> 536
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 536

Asp	Thr	Ser	Tyr	Val	Ser	Leu	Lys	Ala	Pro	Leu	Thr	Lys	Pro
1				5					10				

<210> 537
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 537

Asp	Thr	Ser	Tyr	Val	Ser	Leu	Lys	Ala	Pro	Leu	Thr	Lys	Pro	Leu
1				5					10					15

eolf-seql

<210> 538
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 538

Glu	Ser	Asp	Thr	Ser	Tyr	Val	Ser	Leu	Lys	Ala	Pro	Leu	Thr
1				5					10				

<210> 539
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 539

Glu	Ser	Asp	Thr	Ser	Tyr	Val	Ser	Leu	Lys	Ala	Pro	Leu	Thr	Lys	Pro
1				5					10					15	

Leu

<210> 540
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 540

Ser	Asp	Thr	Ser	Tyr	Val	Ser	Leu	Lys	Ala	Pro	Leu	Thr
1				5					10			

<210> 541
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 541

Ser	Asp	Thr	Ser	Tyr	Val	Ser	Leu	Lys	Ala	Pro	Leu	Thr	Lys	Pro
1				5					10					15

<210> 542
 <211> 16

eolf-seql

<212> PRT
<213> Homo sapiens

<400> 542

Ser	Asp	Thr	Ser	Tyr	Val	Ser	Leu	Lys	Ala	Pro	Leu	Thr	Lys	Pro	Leu
1				5					10					15	

<210> 543
<211> 15
<212> PRT
<213> Homo sapiens

<400> 543

Asp	Pro	Ala	Ser	Phe	Arg	Ala	Ala	Ile	Gly	Leu	Leu	Ala	Arg	His
1				5					10					15

<210> 544
<211> 16
<212> PRT
<213> Homo sapiens

<400> 544

Thr	Glu	Gly	Gln	Phe	Val	Asp	Leu	Thr	Gly	Asn	Arg	Leu	Thr	Tyr	Thr
1				5					10					15	

<210> 545
<211> 14
<212> PRT
<213> Homo sapiens

<400> 545

Ala	Leu	Asp	Phe	Phe	Gly	Asn	Gly	Pro	Pro	Val	Asn	Tyr	Lys
1				5					10				

<210> 546
<211> 16
<212> PRT
<213> Homo sapiens

<400> 546

Ala	Leu	Asp	Phe	Phe	Gly	Asn	Gly	Pro	Pro	Val	Asn	Tyr	Lys	Thr	Gly
1				5					10					15	

eolf-seql

<210> 547
<211> 14
<212> PRT
<213> Homo sapiens

<400> 547

Asp	Phe	Phe	Gly	Asn	Gly	Pro	Pro	Val	Asn	Tyr	Lys	Thr	Gly
1				5					10				

<210> 548
<211> 13
<212> PRT
<213> Homo sapiens

<400> 548

Leu	Asp	Phe	Phe	Gly	Asn	Gly	Pro	Pro	Val	Asn	Tyr	Lys
1				5					10			

<210> 549
<211> 15
<212> PRT
<213> Homo sapiens

<400> 549

Leu	Asp	Phe	Phe	Gly	Asn	Gly	Pro	Pro	Val	Asn	Tyr	Lys	Thr	Gly
1				5					10					15

<210> 550
<211> 17
<212> PRT
<213> Homo sapiens

<400> 550

Gln	Ala	Leu	Asp	Phe	Phe	Gly	Asn	Gly	Pro	Pro	Val	Asn	Tyr	Lys	Thr
1				5					10					15	

Gly

<210> 551
<211> 15
<212> PRT

eolf-seql

<213> Homo sapiens

<400> 551

Ala	Ile	Ser	Asp	Tyr	Val	Phe	Asn	Thr	Ala	Ser	Leu	Val	Tyr	His
1				5					10					15

<210> 552

<211> 17

<212> PRT

<213> Homo sapiens

<400> 552

Ala	Ile	Ser	Asp	Tyr	Val	Phe	Asn	Thr	Ala	Ser	Leu	Val	Tyr	His	Glu
1				5					10					15	

Glu

<210> 553

<211> 14

<212> PRT

<213> Homo sapiens

<400> 553

Ile	Ser	Asp	Tyr	Val	Phe	Asn	Thr	Ala	Ser	Leu	Val	Tyr	His
1				5					10				

<210> 554

<211> 16

<212> PRT

<213> Homo sapiens

<400> 554

Ile	Ser	Asp	Tyr	Val	Phe	Asn	Thr	Ala	Ser	Leu	Val	Tyr	His	Glu	Glu
1				5					10					15	

<210> 555

<211> 13

<212> PRT

<213> Homo sapiens

<400> 555

eolf-seql

Tyr Val Phe Asn Thr Ala Ser Leu Val Tyr His Glu Glu
1 5 10

<210> 556
<211> 13
<212> PRT
<213> Homo sapiens

<400> 556

Ile Val Ile Ala Leu Ser Gly Asn Lys Ala Asp Leu Ala
1 5 10

<210> 557
<211> 15
<212> PRT
<213> Homo sapiens

<400> 557

Ser Pro Asn Ile Val Ile Ala Leu Ser Gly Asn Lys Ala Asp Leu
1 5 10 15

<210> 558
<211> 16
<212> PRT
<213> Homo sapiens

<400> 558

Ser Pro Asn Ile Val Ile Ala Leu Ser Gly Asn Lys Ala Asp Leu Ala
1 5 10 15

<210> 559
<211> 14
<212> PRT
<213> Homo sapiens

<400> 559

Thr Pro Pro Arg Leu Val Ala Pro Arg Phe Leu Glu Val Glu
1 5 10

<210> 560
<211> 15
<212> PRT
<213> Homo sapiens

eolf-seql

<400> 560

Thr	Pro	Pro	Arg	Leu	Val	Ala	Pro	Arg	Phe	Leu	Glu	Val	Glu	Thr
1				5					10					15

<210> 561

<211> 16

<212> PRT

<213> Homo sapiens

<400> 561

Thr	Pro	Pro	Arg	Leu	Val	Ala	Pro	Arg	Phe	Leu	Glu	Val	Glu	Thr	Ser
1				5					10					15	

<210> 562

<211> 17

<212> PRT

<213> Homo sapiens

<400> 562

Glu	Ile	Gln	Arg	Asp	Ile	Leu	Leu	Glu	Lys	Lys	Lys	Val	Ala	Gln	Asp
1				5					10					15	

Gln

<210> 563

<211> 12

<212> PRT

<213> Homo sapiens

<400> 563

Phe	Gly	Ala	Ile	Phe	Phe	Leu	Pro	Asp	Ser	Ser	Lys
1				5					10		

<210> 564

<211> 14

<212> PRT

<213> Homo sapiens

<400> 564

Ile Gln Arg Asp Ile Leu Leu Glu Lys Lys Lys Val Ala Gln

eolf-seql

1

5

10

<210> 565
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 565

Ile Gln Arg Asp Ile Leu Leu Glu Lys Lys Lys Val Ala Gln Asp
 1 5 10 15

<210> 566
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 566

Ile Gln Arg Asp Ile Leu Leu Glu Lys Lys Lys Val Ala Gln Asp Gln
 1 5 10 15

<210> 567
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 567

Leu Ser Gly Val Leu Phe His Ser Ser Pro Ala Leu Gln Pro Ala
 1 5 10 15

<210> 568
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 568

Arg Asp Ile Leu Leu Glu Lys Lys Lys Val Ala Gln Asp Gln
 1 5 10

<210> 569
 <211> 15
 <212> PRT
 <213> Homo sapiens

eolf-seql

<400> 569

Ser Ser Lys Leu Leu Ser Gly Val Leu Phe His Ser Ser Pro Ala
1 5 10 15

<210> 570

<211> 16

<212> PRT

<213> Homo sapiens

<400> 570

Ser Ser Pro Ala Leu Gln Pro Ala Ala Asp His Lys Pro Gly Pro Gly
1 5 10 15

<210> 571

<211> 14

<212> PRT

<213> Homo sapiens

<400> 571

Ala Pro Pro Thr Arg Gly Pro Pro Pro Ser Tyr Gly Gly Ser
1 5 10

<210> 572

<211> 22

<212> PRT

<213> Homo sapiens

<400> 572

Gly Asn Ser Arg Ser Ala Pro Pro Thr Arg Gly Pro Pro Pro Ser Tyr
1 5 10 15

Gly Gly Ser Ser Arg Tyr
20

<210> 573

<211> 14

<212> PRT

<213> Homo sapiens

<400> 573

Arg Asp Tyr Gly His Ser Ser Ser Arg Asp Asp Tyr Pro Ser
1 5 10

eolf-seql

<210> 574
<211> 13
<212> PRT
<213> Homo sapiens

<400> 574

Ser Pro Arg Asp Asp Gly Tyr Ser Thr Lys Asp Ser Tyr
1 5 10

<210> 575
<211> 15
<212> PRT
<213> Homo sapiens

<400> 575

Gly Gly Ser Ala Ala Ala Ala Ala Ala Ala Ala Ala Ser Gly Gly
1 5 10 15

<210> 576
<211> 14
<212> PRT
<213> Homo sapiens

<400> 576

Asp Asn Met Leu Leu Ala Glu Gly Val Ser Gly Pro Glu Lys
1 5 10

<210> 577
<211> 17
<212> PRT
<213> Homo sapiens

<400> 577

Ala Asp Ser Leu Tyr Val Glu Lys Ile Asp Val Gly Glu Ala Glu Pro
1 5 10 15

Arg

<210> 578
<211> 15

eolf-seql

<212> PRT
<213> Homo sapiens

<400> 578

Arg	Ile	Gln	Leu	Val	Glu	Glu	Glu	Leu	Asp	Arg	Ala	Gln	Glu	Arg
1				5					10					15

<210> 579
<211> 16
<212> PRT
<213> Homo sapiens

<400> 579

Arg	Arg	Ile	Gln	Leu	Val	Glu	Glu	Glu	Leu	Asp	Arg	Ala	Gln	Glu	Arg
1				5					10						15

<210> 580
<211> 17
<212> PRT
<213> Homo sapiens

<400> 580

His	Gln	Pro	His	Lys	Val	Thr	Gln	Tyr	Lys	Lys	Gly	Lys	Asp	Ser	Leu
1				5					10						15

Tyr

<210> 581
<211> 12
<212> PRT
<213> Homo sapiens

<400> 581

Arg	Lys	Lys	Ala	Lys	Thr	Thr	Lys	Lys	Ile	Val	Leu
1				5					10		

<210> 582
<211> 17
<212> PRT
<213> Homo sapiens

<400> 582

eolf-seql

Asp	Val	Phe	Arg	Gln	Tyr	Ala	Ser	Leu	Thr	Gly	Thr	Gln	Ala	Leu	Pro
1				5					10					15	

Pro

<210> 583
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 583

Gly	Thr	Ala	Gln	Gly	Glu	Leu	Phe	Leu	Asp	Asp	Gly	His	Thr
1				5					10				

<210> 584
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 584

Val	Phe	Arg	Gln	Tyr	Ala	Ser	Leu	Thr	Gly	Thr	Gln	Ala	Leu	Pro	Pro
1				5					10					15	

<210> 585
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 585

Pro	Glu	Phe	Asp	Gly	Lys	Arg	Phe	Gln	Asn	Val	Ala	Lys
1				5				10				

<210> 586
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 586

Pro	Glu	Phe	Asp	Gly	Lys	Arg	Phe	Gln	Asn	Val	Ala	Lys	Glu
1				5				10					

eolf-seql

<210> 587
<211> 17
<212> PRT
<213> Homo sapiens

<400> 587

Ala	Leu	Pro	Glu	Phe	Asp	Gly	Lys	Arg	Phe	Gln	Asn	Val	Ala	Lys	Glu
1				5				10						15	

Gly

<210> 588
<211> 23
<212> PRT
<213> Homo sapiens

<400> 588

Ala	Ser	Pro	Ser	Glu	Ser	Glu	Ala	Arg	Phe	Arg	Ile	Asp	Ser	Val	Ser
1				5				10						15	

Glu	Gly	Asn	Ala	Gly	Pro	Tyr
				20		

<210> 589
<211> 16
<212> PRT
<213> Homo sapiens

<400> 589

Glu	Ala	Arg	Phe	Arg	Ile	Asp	Ser	Val	Ser	Glu	Gly	Asn	Ala	Gly	Pro
1				5				10						15	

<210> 590
<211> 18
<212> PRT
<213> Homo sapiens

<400> 590

Glu	Ser	Glu	Ala	Arg	Phe	Arg	Ile	Asp	Ser	Val	Ser	Glu	Gly	Asn	Ala
1				5				10						15	

eolf-seql

Gly Pro

<210> 591
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 591

Glu	Ser	Glu	Ala	Arg	Phe	Arg	Ile	Asp	Ser	Val	Ser	Glu	Gly	Asn	Ala
1				5				10						15	

Gly Pro Tyr

<210> 592
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 592

Phe	Arg	Ile	Asp	Ser	Val	Ser	Glu	Gly	Asn	Ala	Gly	Pro
1				5				10				

<210> 593
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 593

Phe	Arg	Ile	Asp	Ser	Val	Ser	Glu	Gly	Asn	Ala	Gly	Pro	Tyr
1				5				10					

<210> 594
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 594

Ser	Glu	Ala	Arg	Phe	Arg	Ile	Asp	Ser	Val	Ser	Glu	Gly	Asn	Ala	Gly
1				5				10					15		

eolf-seql

Pro Tyr

<210> 595
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 595

Ser	Pro	Ser	Glu	Ser	Glu	Ala	Arg	Phe	Arg	Ile	Asp	Ser	Val	Ser	Glu
1				5					10					15	

Gly	Asn	Ala	Gly	Pro	Tyr
			20		

<210> 596
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 596

Gly	Asn	Gln	Leu	Phe	Arg	Ile	Asn	Glu	Ala	Asn	Gln	Leu
1				5					10			

<210> 597
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 597

Gly	Asn	Gln	Leu	Phe	Arg	Ile	Asn	Glu	Ala	Asn	Gln	Leu	Met	Gln
1				5					10				15	

<210> 598
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 598

Ser	Pro	Ala	Met	Ala	Gly	Gly	Leu	Phe	Ala	Ile	Glu	Arg	Glu
1				5					10				

eolf-seql

<210> 599
<211> 15
<212> PRT
<213> Homo sapiens

<400> 599

Phe	Ile	Gly	Asn	Ile	Ala	Val	Asn	His	Ala	Pro	Val	Ser	Pro	Arg
1			5						10					15

<210> 600
<211> 17
<212> PRT
<213> Homo sapiens

<400> 600

Phe	Ile	Gly	Asn	Ile	Ala	Val	Asn	His	Ala	Pro	Val	Ser	Pro	Arg	Pro
1			5						10					15	

Gly

<210> 601
<211> 15
<212> PRT
<213> Homo sapiens

<400> 601

Ile	Gly	Asn	Ile	Ala	Val	Asn	His	Ala	Pro	Val	Ser	Pro	Arg	Pro
1			5						10					15

<210> 602
<211> 16
<212> PRT
<213> Homo sapiens

<400> 602

Ile	Gly	Asn	Ile	Ala	Val	Asn	His	Ala	Pro	Val	Ser	Pro	Arg	Pro	Gly
1			5						10					15	

<210> 603
<211> 15
<212> PRT

eolf-seql

<213> Homo sapiens

<400> 603

Phe	Glu	Gly	Gln	Phe	Ser	Ile	Asn	Lys	Val	Pro	Gly	Asn	Phe	His
1				5					10					15

<210> 604

<211> 17

<212> PRT

<213> Homo sapiens

<400> 604

Phe	Glu	Gly	Gln	Phe	Ser	Ile	Asn	Lys	Val	Pro	Gly	Asn	Phe	His	Val
1				5					10					15	

Ser

<210> 605

<211> 16

<212> PRT

<213> Homo sapiens

<400> 605

Arg	Phe	Glu	Gly	Gln	Phe	Ser	Ile	Asn	Lys	Val	Pro	Gly	Asn	Phe	His
1				5					10					15	

<210> 606

<211> 10

<212> PRT

<213> Homo sapiens

<400> 606

Glu	Leu	Ala	Gly	Ile	Gly	Ile	Leu	Thr	Val
1				5					10

<210> 607

<211> 9

<212> PRT

<213> Homo sapiens

<400> 607

eolf-seql

Tyr
1

5

- 110 -