

SEQUENCE LISTING

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 <120> VACCINES FOR TREATMENT AND PREVENTION OF CANCER
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 <151> 2015-05-13
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Val Leu Cys Asn Gly Leu Val Leu Leu
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Leu Ile Ala Ala Ile Leu Glu Leu Val
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Leu Met Ala Asn Gly Phe Asp Asn Val
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Leu Leu Gly Ile Ser Phe Phe Ala Leu
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Gln Leu Ile Asp Gly Lys Val Thr Val
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Ala Leu Ile Gln Val Gln Ala Thr Val
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Phe Leu Val Arg Asn Asn Val Leu Leu
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Leu Ile Ile Asp Ser Asn Leu Gly Val
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Tyr Leu His Ser Ile Trp His Val Leu
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Thr Ile Val Leu Ala Leu Met Tyr Val
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Val Leu Thr Ser Leu Pro Ala Leu Ala
1 5

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Ile Leu Pro Asn Arg Thr Val Leu Val
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Lys Leu Ser Cys Ala Ser Ile Lys Val
1 5

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Met Leu Pro Gly Phe Leu His Arg Leu
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Ser Leu Gln Thr Ala Val Ala Glu Val
1 5

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His Leu Phe Leu Asp Leu Pro Lys Leu
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Gln Leu Ile Asp Gly Ile Leu Tyr Ala
1 5

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<400> 317

Lys Leu Val Asn Gln Ser Tyr Met Met
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Ser Ile Gly Cys Ala Val Trp Phe Ala
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<400> 319

Met Leu Leu Glu Ala Leu Tyr Leu Phe
1 5

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Phe Leu Leu Gln Ala Asn Phe Ile Val
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Met Leu Asp Arg Leu Leu Arg Ala Ile
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Tyr Ile Leu His Arg Lys Pro Phe Val
1 5

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Asn Met Asn Gln Cys Thr Asp Val Val
1 5

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Phe Ala Met Tyr Tyr Glu Thr Phe Val
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<400> 325

Ser Val Ile Tyr Thr Ile Glu Ala Val
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Ala Leu Leu Leu Ser Thr Thr Asp Val
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Gly Leu Leu Gln Phe Ser Thr Gly Leu
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Ala Leu Gln Ala Gly Thr Val Trp Val
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Gln Val Val Lys Asp Pro Phe Tyr Val
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Lys Val Leu Phe Ile Leu Phe Arg Val
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Trp Gln Leu Phe Phe His Val Thr Val
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<400> 332

Tyr Leu Glu Ile Ile Thr Gln Leu Ile
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<400> 333

Ile Leu His Glu Met Met Glu Glu Ile
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<400> 334

Ser Thr Ile Ser Ser Ser Phe Ser Val
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<400> 335

Ser Val Leu Glu Lys Gly Trp Glu Ile
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<400> 336

Thr Leu Met Pro Asn Ala Ser Asn Leu
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<400> 337

Gly Ile Tyr Gln Arg Cys Trp Leu Val
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<400> 338

Tyr Leu Lys Phe Asn Ile Ser Leu Ala
1 5

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Leu Leu Arg Asp Phe Glu Ala Thr Leu
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Lys Val Phe Asn Thr Val Tyr Ser Leu
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Trp Leu Ser Ser Val Glu Glu Ala Val
1 5

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Thr Leu Asn Ile Asp Leu Phe Pro Ala
1 5

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Gln Leu Val Pro Tyr Ile Ile Asp Leu
1 5

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Met Leu Leu Pro Glu Thr Lys Gly Ile
1 5

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<400> 345

Val Ile Leu Glu Ile Glu Glu Pro Ala
1 5

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<400> 346

Phe Ile Leu Leu Asn Leu Leu Lys Val
1 5

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<400> 347

Ser Leu Ala Ala Gly Val Pro Val Leu
1 5

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Val Thr Trp Leu Ile Ser Leu Gly Val
1 5

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<400> 349

Arg Leu Tyr Ser Ala Val Cys Ala Leu
1 5

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Met Met Ala Gln Thr Glu Pro Thr Val
1 5

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Leu Leu Phe Glu Tyr Leu Thr Leu Phe
1 5

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Gly Leu Phe Ile Val Leu Ile Leu Val
1 5

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Ile Val Ile Cys Ile Ser Pro Glu Val

1 5

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Ser Thr Phe Ala Lys Ala Ser Phe Val
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<210> 355
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<400> 355

Tyr Val Met Ala Val Val Asp Lys Ala
 1 5

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<400> 356

Val Gln Ile Glu Arg Leu Asp Ala Val
 1 5

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<400> 357

His Ile Leu Phe Ala Asn Leu Tyr Leu
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Ser Thr Thr Asn Ala Ile Ala Pro Val
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Phe Val Val Cys Gln Gly Phe Leu Ala
1 5

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<400> 360

Val Leu Gln Ala Ala Asp Ile Leu Leu
1 5

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<400> 361

His Leu Ile His Trp Asn Ser Thr Leu
1 5

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Gly Ile Val Asn Phe Leu Met Thr Ile
1 5

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Leu Leu Arg Leu Ser Thr Pro Phe Val
1 5

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<400> 364

Met Leu Thr Leu Met Ser Pro Pro Leu
1 5

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<400> 365

Ser Leu Val Leu Val Tyr Ala Gly Val
1 5

<210> 366

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<400> 366

Asn Ile Ala Thr Thr Leu Pro Thr Val
1 5

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<400> 367

Tyr Leu Asp Leu Ser Ser Asn Asn Leu
1 5

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<400> 368

Ile Val Trp Glu Val Leu Phe Leu Leu
1 5

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<400> 369

Leu Met Ser Val Trp Val Thr Val Ile
1 5

<210> 370

<211> 9

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<213> Homo sapiens

<400> 370

Ser Leu Asn Phe Leu Phe Phe Met Leu
1 5

<210> 371

<211> 9

<212> PRT
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<400> 371

Tyr Phe Leu Pro Pro Ser Phe Pro Ile
1 5

<210> 372
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<400> 372

Ser Leu Phe Leu Phe Ser Val Leu Leu
1 5

<210> 373
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<400> 373

Gly Ile Leu Asp Phe Tyr Met Phe Leu
1 5

<210> 374
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<400> 374

Pro Leu Met Arg Val Val Gln Ser Val
1 5

<210> 375
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<212> PRT
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<400> 375

Leu Val Met Thr Ser Tyr Ser Pro Val
1 5

<210> 376
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<400> 376

Arg Leu Ile Ser Lys Thr Glu Glu Val
1 5

<210> 377
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<400> 377

Phe Met Tyr Arg Thr Arg Asn Gly Ile
1 5

<210> 378
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<400> 378

Leu Met Gly Gly Thr Val Asp Thr Val
1 5

<210> 379
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<400> 379

Lys Leu Leu Phe Glu Tyr Leu Thr Leu
1 5

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<400> 380

Ser Val Leu Leu Ile His Gln Gly Val
1 5

<210> 381
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<400> 381

Leu Leu Gly Ser Leu Val Thr Arg Ile
1 5

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<400> 382

Leu Leu Tyr Tyr Ser Val Pro Val Leu
1 5

<210> 383
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<400> 383

Val Ile Val Gly Lys Ile Tyr Phe Leu
 1 5

<210> 384
 <211> 9
 <212> PRT
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<400> 384

Phe Ile Ala Lys Lys Val Ile Gly Ile
 1 5

<210> 385
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 385

Leu Thr Ile Gln Phe Val Glu Gly Gln Phe Val Asp Ser Tyr Asp Leu
 1 5 10 15

Thr Ile Glu Asn Thr Phe Thr Lys Leu Ile Thr Val Asn Gly Gln
 20 25 30

<210> 386
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 386

Asp Asp Thr Arg Glu Lys Cys Leu Ile Gln Arg Ser Ser Asn His Ser
 1 5 10 15

Phe Trp Thr Pro Lys Ser Ile Lys Thr Arg Arg Cys Ile Phe Lys
 20 25 30

<210> 387
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 387

Lys His Glu Cys Gly Glu Cys Gly Lys Ser Phe Ser Lys Tyr Val Asn
 1 5 10 15

Phe	Ser	Asn	His	Gln	Arg	Val	His	Thr	Glu	Lys	Lys	His	Glu	Cys
			20					25					30	

<210> 388
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 388

Lys	Met	Ile	Ile	Trp	Phe	Pro	Asp	Met	Val	Lys	Asp	Val	Ile	Gly	Asn
1				5					10					15	

Tyr	Lys	Lys	Trp	Cys	Arg	Ser	Ile	Leu	Arg	Arg	Thr	Ser	Leu	Ile
			20					25					30	

<210> 389
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 389

Gly	Gly	Gln	Arg	Asp	Pro	Leu	Pro	Gly	Leu	Pro	His	Leu	Arg	Arg	Ala
1				5					10					15	

Arg	Leu	Phe	Pro	Trp	Pro	Trp	Arg	Leu	Pro	Ala	Ala	Ala	Gln	Ala
			20					25					30	

<210> 390
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 390

Glu	Tyr	Cys	Ser	Gly	Asn	Met	Gly	Leu	Leu	Gln	Gln	Leu	Glu	Ala	Val
1				5					10					15	

Ile	Gly	Ile	Thr	Leu	Ile	Ala	Val	Asp	Glu	Ala	His	Cys	Ile	Ser
			20					25					30	

<210> 391
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 391

Gln	Ser	Lys	Val	Ser	Ala	Lys	Glu	Val	Asn	Leu	Ser	Lys	Glu	Val	Cys
1				5					10					15	

Thr	Asp	Val	Gln	Tyr	Lys	Asn	Asn	Lys	Ser	Tyr	Val	Ser	Lys	Ile
			20					25					30	

<210> 392
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 392

Gly Lys Gly Cys Asp Asn Asn Phe Ile Glu Asp Val Leu Gly Tyr Ser
 1 5 10 15

Asn Phe Ala Ser Ile Pro Gln Lys Met Thr His Leu Pro Glu Leu
 20 25 30

<210> 393
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 393

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

Thr Met Asp Gln Glu Arg Pro Arg Ser Asp Leu Ser Ile Asn Asn
 20 25 30

<210> 394
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 394

Tyr Ser Thr Pro Leu Ala Leu Gln Phe Leu Met Thr Ser Pro Met Pro
 1 5 10 15

Gly Ala Glu Leu Gly Thr Ala Cys Leu Lys Ala Arg Val Ala Leu
 20 25 30

<210> 395
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 395

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

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

<210> 396
 <211> 31
 <212> PRT

<213> Homo sapiens

<400> 396

Asp Arg Asp Leu Leu Cys Arg Gln Ser Pro Lys Cys Ile Ile Ser Ile
1 5 10 15

Glu Val Met Ser Ser Ser Met Glu Ile Cys Val Ile Lys Val Glu
20 25 30

<210> 397

<211> 31

<212> PRT

<213> Homo sapiens

<400> 397

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

Glu Glu Leu Arg Gln Arg Tyr Thr Ala Lys Arg Gln Pro Ile Leu
20 25 30

<210> 398

<211> 31

<212> PRT

<213> Homo sapiens

<400> 398

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

Phe Pro Gly His Gly Gly Cys Pro Leu Gln Pro Lys Pro Glu Gly
20 25 30

<210> 399

<211> 31

<212> PRT

<213> Homo sapiens

<400> 399

Asn Lys Ile Lys Ser Phe Arg Lys Gln Thr Phe Leu Gly Leu Asp Asn
1 5 10 15

Leu Glu Tyr Leu Gln Ala Asp Phe Asn Leu Leu Arg Asp Ile Asp
20 25 30

<210> 400

<211> 31

<212> PRT

<213> Homo sapiens

<400> 400

Leu Gly Trp Phe Leu Ser Cys Leu Gly Pro Phe Leu Leu Ser Ala Thr
 1 5 10 15

Leu Leu Val Leu Val Leu Lys Leu Gly Asp Ile Leu Pro Tyr Ser
 20 25 30

<210> 401
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 401

Leu His Glu Gln Val Ala Ser Leu Ile Asp Leu Cys Glu Tyr His Val
 1 5 10 15

Ser Leu Leu Asp Glu Lys Arg Leu Val Cys Gly Arg Gly Val Pro
 20 25 30

<210> 402
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 402

Cys Arg Asn Tyr Val Arg Arg Val His Val Asp Gln Phe Leu Pro Leu
 1 5 10 15

Val Gln Leu Pro Ala Gln Leu Arg Pro Gly Asp Gln Ser Asp Ser
 20 25 30

<210> 403
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 403

Tyr Phe Ala Ile Ser Lys Phe Ile Gly Phe Gly Thr Asp Ser Trp Ile
 1 5 10 15

Tyr Pro Asn Ile Ser Ile Pro Glu His Gly Arg Leu Ser Arg Lys
 20 25 30

<210> 404
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 404

Asp Leu Ile Ser Asp Ile Phe Thr Thr Ile Gly Ser Val Thr Val Thr
 1 5 10 15

Leu Leu Leu Ile Leu Leu Leu Ala Ile Val Ala Ser Val Val Thr
 20 25 30

<210> 405
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 405

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

Glu Phe Lys Glu Gly Lys Lys Glu Phe Gln Val Ser Leu Phe Gln
 20 25 30

<210> 406
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 406

Ile Tyr Phe Ala Ile Ser Lys Phe Ile Gly Phe Gly Thr Asp Ser Cys
 1 5 10 15

Val Tyr Pro Asn Ile Ser Ile Pro Glu His Gly Arg Leu Ser Arg
 20 25 30

<210> 407
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 407

Ser Leu Ser Val Gln Cys Arg Tyr Glu Lys Glu His Arg Thr Leu Lys
 1 5 10 15

Lys Phe Trp Cys Arg Pro Pro Gln Ile Leu Arg Cys Asp Lys Ile
 20 25 30

<210> 408
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 408

Ser Glu Gly Arg Arg Asp Asn Met Lys Trp Cys Gly Thr Thr Gln Asp
 1 5 10 15

Tyr Asp Ala Asp Gln Lys Phe Gly Phe Cys Pro Met Ala Ala His
 20 25 30

<210> 409
<211> 31
<212> PRT
<213> Homo sapiens

<400> 409

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

Arg Gly Leu Leu Ala Val Ser Leu Ala Ala Asn Ala Leu Phe Thr
20 25 30

<210> 410
<211> 31
<212> PRT
<213> Homo sapiens

<400> 410

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

Thr Asp Val Ser Asn Val His Asp Asp Glu Leu Glu Phe Thr Arg
20 25 30

<210> 411
<211> 31
<212> PRT
<213> Homo sapiens

<400> 411

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

Glu Arg Gln Leu Gln Val Gln Trp Glu Pro Pro Gly Ser Trp Pro
20 25 30

<210> 412
<211> 31
<212> PRT
<213> Homo sapiens

<400> 412

Pro Gly Arg Ala Ala Pro Thr Gly Ser Glu Ala Gln Gly Pro Ser Thr
1 5 10 15

Phe Val Arg Met Glu Lys Gly Ile Pro Ala Ser Pro Arg Cys Gly
20 25 30

<210> 413
<211> 31
<212> PRT
<213> Homo sapiens

<400> 413

Tyr Arg Arg Ser Gln Ile Ser Met Glu Gln Leu Glu Lys Leu Gln Arg
1 5 10 15

Thr Leu Phe Ser Thr Glu Glu Glu Pro Ser Lys Leu Leu Val Gln
20 25 30

<210> 414

<211> 31

<212> PRT

<213> Homo sapiens

<400> 414

Tyr Ala Ile Ile Ser Thr Ser Pro Ser Asn Ala Ala Ala Met Ala Ser
1 5 10 15

Ser Thr Ala Val Ser Val Val Ser Asp Ser Ile Lys Val Gln Pro
20 25 30

<210> 415

<211> 31

<212> PRT

<213> Homo sapiens

<400> 415

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

Thr His Ile Met Gln Gln Ala Leu Ser Ser His Thr Ala Phe Thr
20 25 30

<210> 416

<211> 31

<212> PRT

<213> Homo sapiens

<400> 416

Gly Ser Leu Val Arg Val Ile Gln Arg Ala Gly Leu Val Phe Pro Lys
1 5 10 15

Met Glu Ala Tyr Ala Val Ser Pro Gly Arg Met Arg Gln Phe Asp
20 25 30

<210> 417

<211> 31

<212> PRT

<213> Homo sapiens

<400> 417

Asp Pro Leu Thr Pro Gly Tyr Pro Ala Asn Glu Tyr Ala Tyr Arg His

1 5 10 15
 Gly Ile Ala Glu Ala Val Gly Leu Pro Ser Ile Pro Val His Pro
 20 25 30

 <210> 418
 <211> 31
 <212> PRT
 <213> Homo sapiens

 <400> 418
 Gln Asn Ile Phe Thr Ala Met Gln Ala Met Ile Arg Ala Met Asp Ser
 1 5 10 15

 Leu Lys Ile Pro Tyr Lys Tyr Glu His Asn Lys Ala His Ala Gln
 20 25 30

 <210> 419
 <211> 31
 <212> PRT
 <213> Homo sapiens

 <400> 419
 Pro Ile Ser Leu Pro Asn His Ala Lys Asn Cys Val Lys Met Gly Met
 1 5 10 15

 Asp Met Cys Glu Ala Ile Lys Lys Val Arg Asp Ala Thr Gly Val
 20 25 30

 <210> 420
 <211> 31
 <212> PRT
 <213> Homo sapiens

 <400> 420
 Ile Ile Lys Phe His Ser Ala Ala Met Asp Glu Lys Val Ile Gly Glu
 1 5 10 15

 Val Val Asp Gln Ala Cys Thr Leu Glu Lys Ala Gln Val Glu Ser
 20 25 30

 <210> 421
 <211> 31
 <212> PRT
 <213> Homo sapiens

 <400> 421
 Leu Lys Arg Leu Gly Lys Thr Lys Trp Asp Ala His Lys Ser Pro Val
 1 5 10 15

 Cys Val Leu Asn Glu Met Met Gln Asn Glu Glu Lys Tyr Glu Lys

20

25

30

<210> 422
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 422

Asp Val Val Ser Lys Met Leu His Val Asp Pro His Gln Arg Leu Met
 1 5 10 15

Ala Met Gln Val Leu Lys His Pro Trp Val Val Asn Arg Glu Tyr
 20 25 30

<210> 423
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 423

Val Thr Met Val Ser Val Leu Glu Asp Leu Ile Gly Lys Leu Thr Ile
 1 5 10 15

Leu Gln Leu Gln His Leu Phe Met Ile Leu Ala Ser Pro Arg Tyr
 20 25 30

<210> 424
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 424

Leu Val Glu Asp Pro Glu Arg Pro Ala Cys Ala Pro Ala Ala Pro Cys
 1 5 10 15

Leu Gln Met His His Val Ala Gln Val Leu Arg Glu Leu Leu Gly
 20 25 30

<210> 425
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 425

Leu Glu Asn Tyr Arg Asn Leu Glu Ala Val Asp Ile Ser Ser Lys Cys
 1 5 10 15

Met Met Lys Glu Val Leu Ser Thr Gly Gln Gly Asn Thr Glu Val
 20 25 30

<210> 426

<211> 31
 <212> PRT
 <213> Homo sapiens

<400> 426

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

Ile His Asn Tyr Ser Ala Ala Pro Gly Met Phe Asn Ser Ser Leu
 20 25 30

<210> 427
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 427

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

Gln His Phe His Leu Val Leu Leu Ala Phe Leu Asp His Leu Pro
 20 25 30

<210> 428
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 428

Leu Asp Met Val Asn Arg Glu Thr Ala His Glu Arg Glu Met Gln Met
 1 5 10 15

Ala Met Gln Ile Ser Gln Ser Trp Asp Glu Ser Leu Ser Leu Ser
 20 25 30

<210> 429
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 429

Asn His Trp Ile Thr Thr Thr Met Asn Leu Lys Pro Leu Ser Gly Leu
 1 5 10 15

Asp Arg Ala Trp Met Trp Ser Ala Ser Asp Phe Ser Asp Gly Asp
 20 25 30

<210> 430
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 430

Gly Glu Phe Val His Asp Asp Val Trp Ala Ile Val Asn Asn Pro Asn
1 5 10 15

Val Arg Pro Gly Ala Pro Leu Arg Trp Gly Ile Phe Thr Asn Asp
20 25 30

<210> 431

<211> 31

<212> PRT

<213> Homo sapiens

<400> 431

Asp Val Ala Trp Ser Pro His Asp Ala Trp Leu Ala Ser Cys Ser Met
1 5 10 15

Asp Asn Thr Val Val Ile Trp Asn Ala Val Lys Phe Pro Glu Ile
20 25 30

<210> 432

<211> 31

<212> PRT

<213> Homo sapiens

<400> 432

Lys Phe Glu Asp Ile Lys Asp Trp Ser Asp Leu Val Thr Pro Gln Glu
1 5 10 15

Ile Met Gly Ile Phe Ala Lys Pro Asp His Val Lys Met Thr Tyr
20 25 30

<210> 433

<211> 31

<212> PRT

<213> Homo sapiens

<400> 433

Val Thr Cys Gln Val Arg Lys Phe Tyr Pro Gln Arg Leu Gln Leu Asn
1 5 10 15

Trp Leu Glu Asn Gly Asn Val Ser Arg Thr Glu Thr Ala Ser Thr
20 25 30

<210> 434

<211> 31

<212> PRT

<213> Homo sapiens

<400> 434

Lys Glu Asn Leu Glu Ala Leu Gln Arg Pro Thr Leu Leu His Leu Thr
1 5 10 15

His Gly Lys Val Lys Glu Phe Tyr Ser Tyr Gln Asn Glu Ala Val
 20 25 30

<210> 435
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 435

Ser Arg Pro Arg Arg Glu Met Ala Ser Pro Pro Ser Pro Leu Ser Glu
 1 5 10 15

Glu Phe Leu Asp Thr Lys Asp Arg Gln Ala Glu Glu Asp Arg Gln
 20 25 30

<210> 436
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 436

Glu Gln Thr Glu Lys Glu Cys Leu Asn Gln Leu Ala Arg Val Thr Pro
 1 5 10 15

Met Ala Ala Ser Asn Leu Glu Ser Leu Gln Leu Lys Ala Ala Val
 20 25 30

<210> 437
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 437

Lys Ala Phe Thr Arg Val Asn Tyr Leu Thr Gln His Gln Lys Ile Tyr
 1 5 10 15

Thr Gly Glu Lys Pro His Glu Cys Lys Glu Cys Gly Lys Ala Phe
 20 25 30

<210> 438
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 438

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

Leu Val Trp Asp Asp Met Val Arg Asp Leu Pro Glu Asp Gln Leu
 20 25 30

<210> 439
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 439

Asn Leu Leu Arg Leu Thr Gly
1 5

<210> 440
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 440

Asn Leu Leu Arg Leu Thr Gly Trp
1 5

<210> 441
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 441

His Trp Asp Phe Ala Trp Pro Trp
1 5

<210> 442
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 442

His Trp Asp Phe Ala Trp Pro
1 5

<210> 443
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 443

Phe Tyr Gln Leu Ala Leu Thr Trp
1 5

<210> 444

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 444

Phe Tyr Gln Leu Ala Leu Thr
1 5

<210> 445

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 445

Arg Lys Leu Phe Phe Asn Leu Arg Trp
1 5

<210> 446

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 446

Arg Lys Leu Phe Phe Asn Leu Arg
1 5

<210> 447

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 447

Phe Phe Arg Lys
1

<210> 448
<211> 8
<212> PRT
<213> Gallus gallus

<400> 448

Ser Ile Ile Asn Phe Glu Lys Leu
1 5

<210> 449
<211> 19
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 449

Ser Ile Ile Asn Phe Glu Lys Leu Phe Phe Arg Lys Asn Leu Leu Arg
1 5 10 15

Leu Thr Gly

<210> 450
<211> 19
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 450

Asn Leu Leu Arg Leu Thr Gly Phe Phe Arg Lys Ser Ile Ile Asn Phe
1 5 10 15

Glu Lys Leu

<210> 451
<211> 27
<212> PRT
<213> Artificial Sequence

<220>

<223> M5

<400> 451

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

Ala Asp Leu Arg Ser Asn Thr Gly Gly Gln Ala
20 25

<210> 452
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> M12

<400> 452

Thr Pro Pro Pro Glu Glu Ala Met Pro Phe Glu Phe Asn Gly Pro Ala
1 5 10 15

Gln Gly Asp His Ser Gln Pro Pro Leu Gln Val
20 25

<210> 453
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> M17

<400> 453

Val Val Asp Arg Asn Pro Gln Phe Leu Asp Pro Val Leu Ala Tyr Leu
1 5 10 15

Met Lys Gly Leu Cys Glu Lys Pro Leu Ala Ser
20 25

<210> 454
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> M20

<400> 454

Phe Arg Arg Lys Ala Phe Leu His Trp Tyr Thr Gly Glu Ala Met Asp
1 5 10 15

Glu Met Glu Phe Thr Glu Ala Glu Ser Asn Met
20 25

<210> 455
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> M22

<400> 455

Pro Lys Pro Asp Phe Ser Gln Leu Gln Arg Asn Ile Leu Pro Ser Asn
 1 5 10 15

Pro Arg Val Thr Arg Phe His Ile Asn Trp Asp
 20 25

<210> 456
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> M24

<400> 456

Thr Ala Val Ile Thr Pro Pro Thr Thr Thr Thr Lys Lys Ala Arg Val
 1 5 10 15

Ser Thr Pro Lys Pro Ala Thr Pro Ser Thr Asp
 20 25

<210> 457
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> M25

<400> 457

Ser Thr Ala Asn Tyr Asn Thr Ser His Leu Asn Asn Asp Val Trp Gln
 1 5 10 15

Ile Phe Glu Asn Pro Val Asp Trp Lys Glu Lys
 20 25

<210> 458
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> M27

<400> 458

Arg Glu Gly Val Glu Leu Cys Pro Gly Asn Lys Tyr Glu Met Arg Arg
 1 5 10 15

His Gly Thr Thr His Ser Leu Val Ile His Asp
 20 25

<210> 459

<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> M28

<400> 459

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

Val Asn Asn Lys Ile Asn Lys Ile Glu Asn Ile
20 25

<210> 460
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> M29

<400> 460

Ile Pro Ser Gly Thr Thr Ile Leu Asn Cys Phe His Asp Val Leu Ser
1 5 10 15

Gly Lys Leu Ser Gly Gly Ser Pro Gly Val Pro
20 25

<210> 461
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> M30

<400> 461

Pro Ser Lys Pro Ser Phe Gln Glu Phe Val Asp Trp Glu Asn Val Ser
1 5 10 15

Pro Glu Leu Asn Ser Thr Asp Gln Pro Phe Leu
20 25

<210> 462
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> M36

<400> 462

Cys Gly Thr Ala Phe Phe Ile Asn Phe Ile Ala Ile Tyr His His Ala

1 5 10 15

Ser Arg Ala Ile Pro Phe Gly Thr Met Val Ala
20 25

<210> 463
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> M44

<400> 463

Glu Phe Lys His Ile Lys Ala Phe Asp Arg Thr Phe Ala Asn Asn Pro
1 5 10 15

Gly Pro Met Val Val Phe Ala Thr Pro Gly Met
20 25

<210> 464
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> M45

<400> 464

Glu Cys Arg Ile Thr Ser Asn Phe Val Ile Pro Ser Glu Tyr Trp Val
1 5 10 15

Glu Glu Lys Glu Glu Lys Gln Lys Leu Ile Gln
20 25

<210> 465
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> M46

<400> 465

Asn His Ser Gly Leu Val Thr Phe Gln Ala Phe Ile Asp Val Met Ser
1 5 10 15

Arg Glu Thr Thr Asp Thr Asp Thr Ala Asp Gln
20 25

<210> 466
<211> 27
<212> PRT

<213> Artificial Sequence

<220>

<223> M47

<400> 466

Gly Arg Gly His Leu Leu Gly Arg Leu Ala Ala Ile Val Gly Lys Gln
1 5 10 15

Val Leu Leu Gly Arg Lys Val Val Val Val Arg
20 25

<210> 467

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> M48

<400> 467

Ser His Cys His Trp Asn Asp Leu Ala Val Ile Pro Ala Gly Val Val
1 5 10 15

His Asn Trp Asp Phe Glu Pro Arg Lys Val Ser
20 25

<210> 468

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> M50

<400> 468

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

Ala Gln Ala Glu Arg Leu Ala Arg Ala Glu Glu
20 25

<210> 469

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> M27-Jay

<400> 469

Arg Glu Gly Val Glu Leu Cys Pro Gly Asn Lys Tyr Glu Met Arg Arg
1 5 10 15

His Gly Thr Thr His Ser Leu Val Ile His Asp Phe Phe Arg Lys Asn
 20 25 30

Leu Leu Arg Leu Thr Gly
 35

<210> 470
 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> M30-Jay

<400> 470

Pro Ser Lys Pro Ser Phe Gln Glu Phe Val Asp Trp Glu Asn Val Ser
 1 5 10 15

Pro Glu Leu Asn Ser Thr Asp Gln Pro Phe Leu Phe Phe Arg Lys Asn
 20 25 30

Leu Leu Arg Leu Thr Gly
 35

<210> 471
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Wild Type M27

<400> 471

Arg Glu Gly Val Glu Leu Cys Pro Gly Asn Lys Tyr Glu Thr Arg Arg
 1 5 10 15

His Gly Thr Thr His Ser Leu Val Ile His Asp
 20 25

<210> 472
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Wild type M30

<400> 472

Pro Ser Lys Pro Ser Phe Gln Glu Phe Val Asp Trp Glu Lys Val Ser
 1 5 10 15

Pro Glu Leu Asn Ser Thr Asp Gln Pro Phe Leu

<210> 473
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide containing phosphorylated serine residue

<220>
 <221> MOD_RES
 <222> (16)..(16)
 <223> Phosphorylated Serine

<400> 473

Asn Leu Leu Arg Leu Thr Gly Phe Phe Arg Lys Gly Leu Leu Gly Ser
 1 5 10 15

Pro Val Arg Ala
 20

<210> 474
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide containing phosphorylated serine residue

<220>
 <221> MOD_RES
 <222> (5)..(5)
 <223> Phosphorylated Serine residue

<400> 474

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

Arg Leu Thr Gly
 20

<210> 475
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide containing phosphorylated serine residue

<220>
 <221> MOD_RES
 <222> (15)..(15)
 <223> Phosphorylated serine residue

<400> 475

Asn Leu Leu Arg Leu Thr Gly Phe Phe Arg Lys Arg Val Ala Ser Pro
1 5 10 15

Thr Ser Gly Val
20

<210> 476

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide containing phosphorylated serine residue

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Phosphorylated serine residue

<400> 476

Arg Val Ala Ser Pro Thr Ser Gly Val Phe Phe Arg Lys Asn Leu Leu
1 5 10 15

Arg Leu Thr Gly
20

<210> 477

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 477

Phe Phe Arg Lys Asn Leu Leu Arg Leu Thr Gly
1 5 10

<210> 478

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 478

Asn Leu Leu Arg Leu Thr Gly Phe Phe Arg Lys
1 5 10