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<110> Institut National de la Sante et de la Recherche Medicale
(INSERM)
Tcland Expression
BROUARD, Sophie
ASHTON-CHESS, Joanna
GIRAL, Magali
SOULILLOU, Jean-Paul
RACAPE, Maud

<120> DIAGNOSTIC OF IMMUNE GRAFT TOLERANCE USING TMTC3 GENE EXPRESSION LEVELS

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<150> EP 07291052.4
<151> 2007-08-31

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gcagactata atagaagttt gagtaatatt ttaataaatt tatataattc aaatgataaa 4920
aatgtatcaa tgttatccaa tgatttttat taaaaaatta cttattatt aaaaaaaaaa 4980
aaaaaaaaaa aaaaaaa 4997

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<210> 3
<211> 914
<212> PRT
<213> homo sapiens

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<400> 3
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Met Ala Asn Ile Asn Leu Lys Glu Ile Thr Leu Ile Val Gly Val Val
1           5           10          15
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Thr Ala Cys Tyr Trp Asn Ser Leu Phe Cys Gly Phe Val Phe Asp Asp
          20          25          30
```

```
Val Ser Ala Ile Leu Asp Asn Lys Asp Leu His Pro Ser Thr Pro Leu
          35          40          45
```

```
Lys Thr Leu Phe Gln Asn Asp Phe Trp Gly Thr Pro Met Ser Glu Glu
                          Page 30

```

50

55

60

Arg Ser His Lys Ser Tyr Arg Pro Leu Thr Val Leu Thr Phe Arg Leu
65 70 75 80

Asn Tyr Leu Leu Ser Glu Leu Lys Pro Met Ser Tyr His Leu Leu Asn
85 90 95

Met Ile Phe His Ala Val Val Ser Val Ile Phe Leu Lys Val Cys Lys
100 105 110

Leu Phe Leu Asp Asn Lys Ser Ser Val Ile Ala Ser Leu Leu Phe Ala
115 120 125

Val His Pro Ile His Thr Glu Ala Val Thr Gly Val Val Gly Arg Ala
130 135 140

Glu Leu Leu Ser Ser Ile Phe Phe Leu Ala Ala Phe Leu Ser Tyr Thr
145 150 155 160

Arg Ser Lys Gly Pro Asp Asn Ser Ile Ile Trp Thr Pro Ile Ala Leu
165 170 175

Thr Val Phe Leu Val Ala Val Ala Thr Leu Cys Lys Glu Gln Gly Ile
180 185 190

Thr Val Val Gly Ile Cys Cys Val Tyr Glu Val Phe Ile Ala Gln Gly
195 200 205

Tyr Thr Leu Pro Leu Leu Cys Thr Thr Ala Gly Gln Phe Leu Arg Gly
210 215 220

Lys Gly Ser Ile Pro Phe Ser Met Leu Gln Thr Leu Val Lys Leu Ile
225 230 235 240

Val Leu Met Phe Ser Thr Leu Leu Leu Val Val Ile Arg Val Gln Val
245 250 255

Ile Gln Ser Gln Leu Pro Val Phe Thr Arg Phe Asp Asn Pro Ala Ala
260 265 270

Val Ser Pro Thr Pro Thr Arg Gln Leu Thr Phe Asn Tyr Leu Leu Pro
275 280 285

Val Asn Ala Trp Leu Leu Leu Asn Pro Ser Glu Leu Cys Cys Asp Trp
290 295 300

Thr Met Gly Thr Ile Pro Leu Ile Glu Ser Leu Leu Asp Ile Arg Asn
305 310 315 320

Leu Ala Thr Phe Thr Phe Phe Cys Phe Leu Gly Met Leu Gly Val Phe
325 330 335

Ser Ile Arg Tyr Ser Gly Asp Ser Ser Lys Thr Gly Leu Met Ala Leu
 340 345 350
 Cys Leu Met Ala Leu Pro Phe Ile Pro Ala Ser Asn Leu Phe Phe Pro
 355 360 365
 Val Gly Phe Val Val Ala Glu Arg Val Leu Tyr Val Pro Ser Met Gly
 370 375 380
 Phe Cys Ile Leu Val Ala His Gly Trp Gln Lys Ile Ser Thr Lys Ser
 385 390 395 400
 Val Phe Lys Lys Leu Ser Trp Ile Cys Leu Ser Met Val Ile Leu Thr
 405 410 415
 His Ser Leu Lys Thr Phe His Arg Asn Trp Asp Trp Glu Ser Glu Tyr
 420 425 430
 Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys Asn Asn Ala Lys Leu
 435 440 445
 Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu Lys Asn Phe Glu Arg
 450 455 460
 Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val Gln Pro Asp Asp Ile
 465 470 475 480
 Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys Asn Leu Asn Arg Thr
 485 490 495
 Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys Ser Leu Met Pro Gln
 500 505 510
 Ile Ile Pro Gly Lys Lys Tyr Ala Ala Arg Ile Ala Pro Asn His Leu
 515 520 525
 Asn Val Tyr Ile Asn Leu Ala Asn Leu Ile Arg Ala Asn Glu Ser Arg
 530 535 540
 Leu Glu Glu Ala Asp Gln Leu Tyr Arg Gln Ala Ile Ser Met Arg Pro
 545 550 555 560
 Asp Phe Lys Gln Ala Tyr Ile Ser Arg Gly Glu Leu Leu Leu Lys Met
 565 570 575
 Asn Lys Pro Leu Lys Ala Lys Glu Ala Tyr Leu Lys Ala Leu Glu Leu
 580 585 590
 Asp Arg Asn Asn Ala Asp Leu Trp Tyr Asn Leu Ala Ile Val His Ile
 595 600 605

PhoenixTemp3263.tmp.txt

Glu Leu Lys Glu Pro Asn Glu Ala Leu Lys Asn Phe Asn Arg Ala Leu
 610 615 620
 Glu Leu Asn Pro Lys His Lys Leu Ala Leu Phe Asn Ser Val Ile Val
 625 630 635 640
 Met Gln Glu Ser Gly Glu Val Lys Leu Arg Pro Glu Ala Arg Lys Arg
 645 650 655
 Leu Leu Ser Tyr Ile Asn Glu Glu Pro Leu Asp Ala Asn Gly Tyr Phe
 660 665 670
 Asn Leu Gly Met Leu Ala Met Asp Asp Lys Lys Asp Asn Glu Ala Glu
 675 680 685
 Ile Trp Met Lys Lys Ala Ile Lys Leu Gln Ala Asp Phe Arg Ser Ala
 690 695 700
 Leu Phe Asn Leu Ala Leu Leu Tyr Ser Gln Thr Ala Lys Glu Leu Lys
 705 710 715 720
 Ala Leu Pro Ile Leu Glu Glu Leu Leu Arg Tyr Tyr Pro Asp His Ile
 725 730 735
 Lys Gly Leu Ile Leu Lys Gly Asp Ile Leu Met Asn Gln Lys Lys Asp
 740 745 750
 Ile Leu Gly Ala Lys Lys Cys Phe Glu Arg Ile Leu Glu Met Asp Pro
 755 760 765
 Ser Asn Val Gln Gly Lys His Asn Leu Cys Val Val Tyr Phe Glu Glu
 770 775 780
 Lys Asp Leu Leu Lys Ala Glu Arg Cys Leu Leu Glu Thr Leu Ala Leu
 785 790 795 800
 Ala Pro His Glu Glu Tyr Ile Gln Arg His Leu Asn Ile Val Arg Asp
 805 810 815
 Lys Ile Ser Ser Ser Ser Phe Ile Glu Pro Ile Phe Pro Thr Ser Lys
 820 825 830
 Ile Ser Ser Val Glu Gly Lys Lys Ile Pro Thr Glu Ser Val Lys Glu
 835 840 845
 Ile Arg Gly Glu Ser Arg Gln Thr Gln Ile Val Lys Thr Ser Asn Asn
 850 855 860
 Lys Ser Gln Ser Lys Ser Asn Lys Gln Leu Gly Lys Asn Gly Asp Glu
 865 870 875 880

PhoenixTemp3263.tmp.txt

Glu Ala Pro His Lys Thr Thr Lys Asp Ile Lys Glu Ile Glu Lys Lys
885 890 895

Arg Val Ala Ala Leu Lys Arg Leu Glu Glu Ile Glu Arg Ile Leu Asn
900 905 910

Gly Glu

<210>	4
<211>	915
<212>	PRT
<213>	Homo sapiens

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<220>
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<223> alternative amino acid sequence of TMTC3
<400> 4
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Met Ala Asn Ile Asn Leu Lys Glu Ile Thr Leu Ile Val Gly Val Val
1 5 10 15

Thr Ala Cys Tyr Trp Asn Ser Leu Phe Cys Gly Phe Val Phe Asp Asp
20 25 30

Val Ser Ala Ile Leu Asp Asn Lys Asp Leu His Pro Ser Thr Pro Leu
35 40 45

Lys Thr Leu Phe Gln Asn Asp Phe Trp Gly Thr Pro Met Ser Glu Glu
50 55 60

Arg Ser His Lys Ser Tyr Arg Pro Leu Thr Val Leu Thr Phe Arg Leu
65 70 75 80

Asn Tyr Leu Leu Ser Glu Leu Lys Pro Met Ser Tyr His Leu Leu Asn
85 90 95

Met Ile Phe His Ala Val Val Ser Val Ile Phe Leu Lys Val Cys Lys
100 105 110

Leu Phe Leu Asp Asn Lys Ser Ser Val Ile Ala Ser Leu Leu Phe Ala
115 120 125

Val His Pro Ile His Thr Glu Ala Val Thr Gly Val Val Gly Arg Ala
130 135 140

Glu Leu Leu Ser Ser Ile Phe Phe Leu Ala Ala Phe Leu Ser Tyr Thr
145 150 155 160

Arg Ser Lys Gly Pro Asp Asn Ser Ile Ile Trp Thr Pro Ile Ala Leu
165 170 175

Thr Val Phe Leu Val Ala Val Ala Thr Leu Cys Lys Glu Gln Gly Ile
Page 34

180

185

190

Thr Val Val Gly Ile Cys Cys Val Tyr Glu Val Phe Ile Ala Gln Gly
 195 200 205
 Tyr Thr Leu Pro Leu Leu Cys Thr Thr Ala Gly Gln Phe Leu Arg Gly
 210 215 220
 Lys Gly Ser Ile Pro Phe Ser Met Leu Gln Thr Leu Val Lys Leu Ile
 225 230 235 240
 Val Leu Met Phe Ser Thr Leu Leu Leu Val Val Ile Arg Val Gln Val
 245 250 255
 Ile Gln Ser Gln Leu Pro Val Phe Thr Arg Phe Asp Asn Pro Ala Ala
 260 265 270
 Val Ser Pro Thr Pro Thr Arg Gln Leu Thr Phe Asn Tyr Leu Leu Pro
 275 280 285
 Val Asn Ala Trp Leu Leu Leu Asn Pro Ser Glu Leu Cys Cys Asp Trp
 290 295 300
 Thr Met Gly Thr Ile Pro Leu Ile Glu Ser Leu Leu Asp Ile Arg Asn
 305 310 315 320
 Leu Ala Thr Phe Thr Phe Phe Cys Phe Leu Gly Met Leu Gly Val Phe
 325 330 335
 Ser Ile Arg Tyr Ser Gly Asp Ser Ser Lys Thr Val Leu Met Ala Leu
 340 345 350
 Cys Leu Met Ala Leu Pro Phe Ile Pro Ala Ser Asn Leu Phe Phe Pro
 355 360 365
 Val Gly Phe Val Val Ala Glu Arg Val Leu Tyr Val Pro Ser Met Gly
 370 375 380
 Phe Cys Ile Leu Val Ala His Gly Trp Gln Lys Ile Ser Thr Lys Ser
 385 390 395 400
 Val Phe Lys Lys Leu Ser Trp Ile Cys Leu Ser Met Val Ile Leu Thr
 405 410 415
 His Ser Leu Lys Thr Phe His Arg Asn Trp Asp Trp Glu Ser Glu Tyr
 420 425 430
 Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys Asn Asn Ala Lys Leu
 435 440 445
 Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu Lys Asn Phe Glu Arg
 450 455 460

Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val Gln Pro Asp Asp Ile
 465 470 475 480
 Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys Asn Leu Asn Arg Thr
 485 490 495
 Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys Ser Leu Met Pro Gln
 500 505 510
 Ile Ile Pro Gly Lys Lys Tyr Ala Ala Arg Ile Ala Pro Asn His Leu
 515 520 525
 Asn Val Tyr Ile Asn Leu Ala Asn Leu Ile Arg Ala Asn Glu Ser Arg
 530 535 540
 Leu Glu Glu Ala Asp Gln Leu Tyr Arg Gln Ala Ile Ser Met Arg Pro
 545 550 555 560
 Asp Phe Lys Gln Ala Tyr Ile Ser Arg Gly Glu Leu Leu Leu Lys Met
 565 570 575
 Asn Lys Pro Leu Lys Ala Lys Glu Ala Tyr Leu Lys Ala Leu Glu Leu
 580 585 590
 Asp Arg Asn Asn Ala Asp Leu Trp Tyr Asn Leu Ala Ile Val His Ile
 595 600 605
 Glu Leu Lys Glu Pro Asn Glu Ala Leu Lys Lys Asn Phe Asn Arg Ala
 610 615 620
 Leu Glu Leu Asn Pro Lys His Lys Leu Ala Leu Phe Asn Ser Ala Ile
 625 630 635 640
 Val Met Gln Glu Ser Gly Glu Val Lys Leu Arg Pro Glu Ala Arg Lys
 645 650 655
 Arg Leu Leu Ser Tyr Ile Asn Glu Glu Pro Leu Asp Ala Asn Gly Tyr
 660 665 670
 Phe Asn Leu Gly Met Leu Ala Met Asp Asp Lys Lys Asp Asn Glu Ala
 675 680 685
 Glu Ile Trp Met Lys Lys Ala Ile Lys Leu Gln Ala Asp Phe Arg Ser
 690 695 700
 Ala Leu Phe Asn Leu Ala Leu Leu Tyr Ser Gln Thr Ala Lys Glu Leu
 705 710 715 720
 Lys Ala Leu Pro Ile Leu Glu Glu Leu Leu Arg Tyr Tyr Pro Asp His
 725 730 735

PhoenixTemp3263.tmp.txt

Ile Lys Gly Leu Ile Leu Lys Gly Asp Ile Leu Met Asn Gln Lys Lys
740 745 750

Asp Ile Leu Gly Ala Lys Lys Cys Phe Glu Arg Ile Leu Glu Met Asp
755 760 765

Pro Ser Asn Val Gln Gly Lys His Asn Leu Cys Val Val Tyr Phe Glu
770 775 780

Glu Lys Asp Leu Leu Lys Ala Glu Arg Cys Leu Leu Glu Thr Leu Ala
785 790 795 800

Leu Ala Pro His Glu Glu Tyr Ile Gln Arg His Leu Asn Ile Val Arg
805 810 815

Asp Lys Ile Ser Ser Ser Ser Phe Ile Glu Pro Ile Phe Pro Thr Ser
820 825 830

Lys Ile Ser Ser Val Glu Gly Lys Lys Ile Pro Thr Glu Ser Val Lys
835 840 845

Glu Ile Arg Gly Glu Ser Arg Gln Thr Gln Ile Val Lys Thr Ser Asp
850 855 860

Asn Lys Ser Gln Ser Lys Ser Asn Lys Gln Leu Gly Lys Asn Gly Asp
865 870 875 880

Glu Glu Thr Pro His Lys Thr Thr Lys Asp Ile Lys Glu Ile Glu Lys
885 890 895

Lys Arg Val Ala Ala Leu Lys Arg Leu Glu Glu Ile Glu Arg Ile Leu
900 905 910

Asn Gly Glu
915

<210> 5
<211> 388
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> fragment of protein TMTC3, amino acids 10-397 of SEQ ID NO:3 or 4
<400> 5

Thr Leu Ile Val Gly Val Val Thr Ala Cys Tyr Trp Asn Ser Leu Phe
1 5 10 15

Cys Gly Phe Val Phe Asp Asp Val Ser Ala Ile Leu Asp Asn Lys Asp
20 25 30

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

305 310 315 320

Leu Gly Met Leu Gly Val Phe Ser Ile Arg Tyr Ser Gly Asp Ser Ser
325 330 335

Lys Thr Val Leu Met Ala Leu Cys Leu Met Ala Leu Pro Phe Ile Pro
340 345 350

Ala Ser Asn Leu Phe Phe Pro Val Gly Phe Val Val Ala Glu Arg Val
355 360 365

Leu Tyr Val Pro Ser Met Gly Phe Cys Ile Leu Val Ala His Gly Trp
370 375 380

Gln Lys Ile Ser
385

<210>	6
<211>	304
<212>	PRT
<213>	Homo sapiens

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<220>
<221> misc_feature
<223> fragment of protein TMTC3, amino acids 94-397 of SEQ ID NO:3 or 4
<400> 6
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Leu Leu Asn Met Ile Phe His Ala Val Val Ser Val Ile Phe Leu Lys
1 5 10 15

Val Cys Lys Leu Phe Leu Asp Asn Lys Ser Ser Val Ile Ala Ser Leu
20 25 30

Leu Phe Ala Val His Pro Ile His Thr Glu Ala Val Thr Gly Val Val
35 40 45

Gly Arg Ala Glu Leu Leu Ser Ser Ile Phe Phe Leu Ala Ala Phe Leu
50 55 60

Ser Tyr Thr Arg Ser Lys Gly Pro Asp Asn Ser Ile Ile Trp Thr Pro
65 70 75 80

Ile Ala Leu Thr Val Phe Leu Val Ala Val Ala Thr Leu Cys Lys Glu
85 90 95

Gln Gly Ile Thr Val Val Gly Ile Cys Cys Val Tyr Glu Val Phe Ile
100 105 110

Ala Gln Gly Tyr Thr Leu Pro Leu Leu Cys Thr Thr Ala Gly Gln Phe
115 120 125

Leu Arg Gly Lys Gly Ser Ile Pro Phe Ser Met Leu Gln Thr Leu Val
130 135 140

Lys Leu Ile Val Leu Met Phe Ser Thr Leu Leu Leu Val Val Ile Arg
145 150 155 160

Val Gln Val Ile Gln Ser Gln Leu Pro Val Phe Thr Arg Phe Asp Asn
165 170 175

Pro Ala Ala Val Ser Pro Thr Pro Thr Arg Gln Leu Thr Phe Asn Tyr
180 185 190

Leu Leu Pro Val Asn Ala Trp Leu Leu Leu Asn Pro Ser Glu Leu Cys
195 200 205

Cys Asp Trp Thr Met Gly Thr Ile Pro Leu Ile Glu Ser Leu Leu Asp
210 215 220

Ile Arg Asn Leu Ala Thr Phe Thr Phe Phe Cys Phe Leu Gly Met Leu
225 230 235 240

Gly Val Phe Ser Ile Arg Tyr Ser Gly Asp Ser Ser Lys Thr Val Leu
245 250 255

Met Ala Leu Cys Leu Met Ala Leu Pro Phe Ile Pro Ala Ser Asn Leu
260 265 270

Phe Phe Pro Val Gly Phe Val Val Ala Glu Arg Val Leu Tyr Val Pro
275 280 285

Ser Met Gly Phe Cys Ile Leu Val Ala His Gly Trp Gln Lys Ile Ser
290 295 300

<210> 7
<211> 262
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> fragment of protein TMTC3, amino acids 136-397 of SEQ ID NO:4
<400> 7

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

Phe Leu Ala Ala Phe Leu Ser Tyr Thr Arg Ser Lys Gly Pro Asp Asn
20 25 30

Ser Ile Ile Trp Thr Pro Ile Ala Leu Thr Val Phe Leu Val Ala Val
35 40 45

Ala Thr Leu Cys Lys Glu Gln Gly Ile Thr Val Val Gly Ile Cys Cys
50 55 60

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Val Tyr Glu Val Phe Ile Ala Gln Gly Tyr Thr Leu Pro Leu Leu Cys
65 70 75 80

Thr Thr Ala Gly Gln Phe Leu Arg Gly Lys Gly Ser Ile Pro Phe Ser
85 90 95

Met Leu Gln Thr Leu Val Lys Leu Ile Val Leu Met Phe Ser Thr Leu
100 105 110

Leu Leu Val Val Ile Arg Val Gln Val Ile Gln Ser Gln Leu Pro Val
115 120 125

Phe Thr Arg Phe Asp Asn Pro Ala Ala Val Ser Pro Thr Pro Thr Arg
130 135 140

Gln Leu Thr Phe Asn Tyr Leu Leu Pro Val Asn Ala Trp Leu Leu Leu
145 150 155 160

Asn Pro Ser Glu Leu Cys Cys Asp Trp Thr Met Gly Thr Ile Pro Leu
165 170 175

Ile Glu Ser Leu Leu Asp Ile Arg Asn Leu Ala Thr Phe Thr Phe Phe
180 185 190

Cys Phe Leu Gly Met Leu Gly Val Phe Ser Ile Arg Tyr Ser Gly Asp
195 200 205

Ser Ser Lys Thr Val Leu Met Ala Leu Cys Leu Met Ala Leu Pro Phe
210 215 220

Ile Pro Ala Ser Asn Leu Phe Phe Pro Val Gly Phe Val Val Ala Glu
225 230 235 240

Arg Val Leu Tyr Val Pro Ser Met Gly Phe Cys Ile Leu Val Ala His
245 250 255

Gly Trp Gln Lys Ile Ser
260

<210> 8
<211> 231
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> fragment of protein TMTC3, amino acids 167-397 of SEQ ID NO:4
<400> 8

Asn Ser Ile Ile Trp Thr Pro Ile Ala Leu Thr Val Phe Leu Val Ala
1 5 10 15

Val Ala Thr Leu Cys Lys Glu Gln Gly Ile Thr Val Val Gly Ile Cys
20 25 30

Cys Val Tyr Glu Val Phe Ile Ala Gln Gly Tyr Thr Leu Pro Leu Leu
35 40 45

Cys Thr Thr Ala Gly Gln Phe Leu Arg Gly Lys Gly Ser Ile Pro Phe
50 55 60

Ser Met Leu Gln Thr Leu Val Lys Leu Ile Val Leu Met Phe Ser Thr
65 70 75 80

Leu Leu Leu Val Val Ile Arg Val Gln Val Ile Gln Ser Gln Leu Pro
85 90 95

Val Phe Thr Arg Phe Asp Asn Pro Ala Ala Val Ser Pro Thr Pro Thr
100 105 110

Arg Gln Leu Thr Phe Asn Tyr Leu Leu Pro Val Asn Ala Trp Leu Leu
115 120 125

Leu Asn Pro Ser Glu Leu Cys Cys Asp Trp Thr Met Gly Thr Ile Pro
130 135 140

Leu Ile Glu Ser Leu Leu Asp Ile Arg Asn Leu Ala Thr Phe Thr Phe
145 150 155 160

Phe Cys Phe Leu Gly Met Leu Gly Val Phe Ser Ile Arg Tyr Ser Gly
165 170 175

Asp Ser Ser Lys Thr Val Leu Met Ala Leu Cys Leu Met Ala Leu Pro
180 185 190

Phe Ile Pro Ala Ser Asn Leu Phe Phe Pro Val Gly Phe Val Val Ala
195 200 205

Glu Arg Val Leu Tyr Val Pro Ser Met Gly Phe Cys Ile Leu Val Ala
210 215 220

His Gly Trp Gln Lys Ile Ser
225 230

<210> 9
<211> 204
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> fragment of protein TMTC3, amino acids 194-397 of SEQ ID NO:4

<400> 9

Val Val Gly Ile Cys Cys Val Tyr Glu Val Phe Ile Ala Gln Gly Tyr

1 5 10 15
 Thr Leu Pro Leu Leu Cys Thr Thr Ala Gly Gln Phe Leu Arg Gly Lys
 20 25 30
 Gly Ser Ile Pro Phe Ser Met Leu Gln Thr Leu Val Lys Leu Ile Val
 35 40 45
 Leu Met Phe Ser Thr Leu Leu Leu Val Val Ile Arg Val Gln Val Ile
 50 55 60
 Gln Ser Gln Leu Pro Val Phe Thr Arg Phe Asp Asn Pro Ala Ala Val
 65 70 75 80
 Ser Pro Thr Pro Thr Arg Gln Leu Thr Phe Asn Tyr Leu Leu Pro Val
 85 90 95
 Asn Ala Trp Leu Leu Leu Asn Pro Ser Glu Leu Cys Cys Asp Trp Thr
 100 105 110
 Met Gly Thr Ile Pro Leu Ile Glu Ser Leu Leu Asp Ile Arg Asn Leu
 115 120 125
 Ala Thr Phe Thr Phe Phe Cys Phe Leu Gly Met Leu Gly Val Phe Ser
 130 135 140
 Ile Arg Tyr Ser Gly Asp Ser Ser Lys Thr Val Leu Met Ala Leu Cys
 145 150 155 160
 Leu Met Ala Leu Pro Phe Ile Pro Ala Ser Asn Leu Phe Phe Pro Val
 165 170 175
 Gly Phe Val Val Ala Glu Arg Val Leu Tyr Val Pro Ser Met Gly Phe
 180 185 190
 Cys Ile Leu Val Ala His Gly Trp Gln Lys Ile Ser
 195 200

<210> 10
 <211> 166
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <223> fragment of protein TMTC3, amino acids 232-397 of SEQ ID NO:3 or
 4

 <400> 10

Met Leu Gln Thr Leu Val Lys Leu Ile Val Leu Met Phe Ser Thr Leu
 1 5 10 15
 Leu Leu Val Val Ile Arg Val Gln Val Ile Gln Ser Gln Leu Pro Val

Phe Thr Arg Phe Asp Asn Pro Ala Ala Val Ser Pro Thr Pro Thr Arg
35 40 45

Gln Leu Thr Phe Asn Tyr Leu Leu Pro Val Asn Ala Trp Leu Leu Leu
50 55 60

Asn 65 Pro Ser Glu Leu Cys 70 Cys Asp Trp Thr Met 75 Gly Thr Ile Pro Leu 80

Ile Glu Ser Leu Leu Asp Ile Arg Asn Leu Ala Thr Phe Thr Phe Phe
85 90 95

Cys Phe Leu Gly Met Leu Gly Val Phe Ser Ile Arg Tyr Ser Gly Asp
100 105 110

Ser Ser Lys Thr Val Leu Met Ala Leu Cys Leu Met Ala Leu Pro Phe
115 120 125

Ile Pro Ala Ser Asn Leu Phe Phe Pro Val Gly Phe Val Val Ala Glu
130 135 140

Arg Val Leu Tyr Val Pro Ser Met Gly Phe Cys Ile Leu Val Ala His
145 150 155 160

Gly Trp Gln Lys Ile Ser
165

<210>	11
<211>	80
<212>	PRT
<213>	Homo sapiens

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<220>
<221> misc_feature
<223> fragment of protein TMTC3, amino acids 318-397 of SEQ ID NO:3 or
4
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<400> 11

1 Ile Arg Asn Leu Ala Thr Phe Thr Phe Phe Cys Phe Leu Gly Met Leu
5 10 15

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

Met Ala Leu Cys Leu Met Ala Leu Pro Phe Ile Pro Ala Ser Asn Leu
35 40 45

Phe Phe Pro Val Gly Phe Val Val Ala Glu Arg Val Leu Tyr Val Pro
50 55 60

Ser Met Gly Phe Cys Ile Leu Val Ala His Gly Trp Gln Lys Ile Ser

65

70

75

80

<210> 12
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> fragment of protein TMTC3, amino acids 354-397 of SEQ ID NO:3 or
 4

<400> 12

Leu Met Ala Leu Pro Phe Ile Pro Ala Ser Asn Leu Phe Phe Pro Val
 1 5 10 15

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

Cys Ile Leu Val Ala His Gly Trp Gln Lys Ile Ser
 35 40

<210> 13
 <211> 21
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> fragment of protein TMTC3, amino acids 377-397 of SEQ ID NO:3 or
 4

<400> 13

Val Leu Tyr Val Pro Ser Met Gly Phe Cys Ile Leu Val Ala His Gly
 1 5 10 15

Trp Gln Lys Ile Ser
 20

<210> 14
 <211> 48
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> fragment of protein TMTC3, amino acids 398-445 of SEQ ID NO:3 or
 4

<400> 14

Thr Lys Ser Val Phe Lys Lys Leu Ser Trp Ile Cys Leu Ser Met Val
 1 5 10 15

Ile Leu Thr His Ser Leu Lys Thr Phe His Arg Asn Trp Asp Trp Glu
 20 25 30

PhoenixTemp3263.tmp.txt

Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys Asn Asn
35 40 45

<210> 15
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> fragment of protein TMTC3, amino acids 398-479 of SEQ ID NO:3 or
4

<400> 15

Thr Lys Ser Val Phe Lys Lys Leu Ser Trp Ile Cys Leu Ser Met Val
1 5 10 15

Ile Leu Thr His Ser Leu Lys Thr Phe His Arg Asn Trp Asp Trp Glu
20 25 30

Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys Asn Asn
35 40 45

Ala Lys Leu Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu Lys Asn
50 55 60

Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val Gln Pro
65 70 75 80

Asp Asp

<210> 16
<211> 116
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> fragment of protein TMTC3, amino acids 398-513 of SEQ ID NO:3 or
4

<400> 16

Thr Lys Ser Val Phe Lys Lys Leu Ser Trp Ile Cys Leu Ser Met Val
1 5 10 15

Ile Leu Thr His Ser Leu Lys Thr Phe His Arg Asn Trp Asp Trp Glu
20 25 30

Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys Asn Asn
35 40 45

Ala Lys Leu Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu Lys Asn
50 55 60

Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val Gln Pro
65 70 75 80

Asp Asp Ile Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys Asn Leu
85 90 95

Asn Arg Thr Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys Ser Leu
100 105 110

Met Pro Gln Ile
115

<210> 17
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<213> Homo sapiens

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4

<400> 17

Thr Lys Ser Val Phe Lys Lys Leu Ser Trp Ile Cys Leu Ser Met Val
1 5 10 15

Ile Leu Thr His Ser Leu Lys Thr Phe His Arg Asn Trp Asp Trp Glu
20 25 30

Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys Asn Asn
35 40 45

Ala Lys Leu Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu Lys Asn
50 55 60

Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val Gln Pro
65 70 75 80

Asp Asp Ile Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys Asn Leu
85 90 95

Asn Arg Thr Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys Ser Leu
100 105 110

Met Pro Gln Ile Ile Pro Gly Lys Lys Tyr Ala Ala Arg Ile Ala Pro
115 120 125

Asn His Leu Asn Val Tyr Ile Asn Leu Ala Asn Leu Ile Arg Ala Asn
130 135 140

Glu Ser Arg Leu Glu Glu Ala Asp Gln Leu Tyr Arg Gln Ala Ile Ser
145 150 155 160

Met Arg Pro Asp Phe
165

<210> 18
<211> 199
<212> PRT
<213> Homo sapiens

<220>
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4

<400> 18

Thr Lys Ser Val Phe Lys Lys Leu Ser Trp Ile Cys Leu Ser Met Val
1 5 10 15

Ile Leu Thr His Ser Leu Lys Thr Phe His Arg Asn Trp Asp Trp Glu
20 25 30

Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys Asn Asn
35 40 45

Ala Lys Leu Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu Lys Asn
50 55 60

Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val Gln Pro
65 70 75 80

Asp Asp Ile Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys Asn Leu
85 90 95

Asn Arg Thr Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys Ser Leu
100 105 110

Met Pro Gln Ile Ile Pro Gly Lys Lys Tyr Ala Ala Arg Ile Ala Pro
115 120 125

Asn His Leu Asn Val Tyr Ile Asn Leu Ala Asn Leu Ile Arg Ala Asn
130 135 140

Glu Ser Arg Leu Glu Glu Ala Asp Gln Leu Tyr Arg Gln Ala Ile Ser
145 150 155 160

Met Arg Pro Asp Phe Lys Gln Ala Tyr Ile Ser Arg Gly Glu Leu Leu
165 170 175

Leu Lys Met Asn Lys Pro Leu Lys Ala Lys Glu Ala Tyr Leu Lys Ala
180 185 190

Leu Glu Leu Asp Arg Asn Asn
195

<210> 19
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Thr Lys Ser Val Phe Lys Lys Leu Ser Trp Ile Cys Leu Ser Met Val
 1 5 10 15

Ile Leu Thr His Ser Leu Lys Thr Phe His Arg Asn Trp Asp Trp Glu
 20 25 30

Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys Asn Asn
 35 40 45

Ala Lys Leu Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu Lys Asn
 50 55 60

Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val Gln Pro
 65 70 75 80

Asp Asp Ile Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys Asn Leu
 85 90 95

Asn Arg Thr Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys Ser Leu
 100 105 110

Met Pro Gln Ile Ile Pro Gly Lys Lys Tyr Ala Ala Arg Ile Ala Pro
 115 120 125

Asn His Leu Asn Val Tyr Ile Asn Leu Ala Asn Leu Ile Arg Ala Asn
 130 135 140

Glu Ser Arg Leu Glu Glu Ala Asp Gln Leu Tyr Arg Gln Ala Ile Ser
 145 150 155 160

Met Arg Pro Asp Phe Lys Gln Ala Tyr Ile Ser Arg Gly Glu Leu Leu
 165 170 175

Leu Lys Met Asn Lys Pro Leu Lys Ala Lys Glu Ala Tyr Leu Lys Ala
 180 185 190

Leu Glu Leu Asp Arg Asn Asn Ala Asp Leu Trp Tyr Asn Leu Ala Ile
 195 200 205

Val His Ile Glu Leu Lys Glu Pro Asn Glu Ala Leu Lys Lys Asn Phe
 210 215 220

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Asn Arg Ala Leu Glu Leu Asn Pro Lys His
225 230

<210> 20
<211> 305
<212> PRT
<213> Homo sapiens

<220>
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Thr Lys Ser Val Phe Lys Lys Leu Ser Trp Ile Cys Leu Ser Met Val
1 5 10 15

Ile Leu Thr His Ser Leu Lys Thr Phe His Arg Asn Trp Asp Trp Glu
20 25 30

Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys Asn Asn
35 40 45

Ala Lys Leu Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu Lys Asn
50 55 60

Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val Gln Pro
65 70 75 80

Asp Asp Ile Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys Asn Leu
85 90 95

Asn Arg Thr Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys Ser Leu
100 105 110

Met Pro Gln Ile Ile Pro Gly Lys Lys Tyr Ala Ala Arg Ile Ala Pro
115 120 125

Asn His Leu Asn Val Tyr Ile Asn Leu Ala Asn Leu Ile Arg Ala Asn
130 135 140

Glu Ser Arg Leu Glu Glu Ala Asp Gln Leu Tyr Arg Gln Ala Ile Ser
145 150 155 160

Met Arg Pro Asp Phe Lys Gln Ala Tyr Ile Ser Arg Gly Glu Leu Leu
165 170 175

Leu Lys Met Asn Lys Pro Leu Lys Ala Lys Glu Ala Tyr Leu Lys Ala
180 185 190

Leu Glu Leu Asp Arg Asn Asn Ala Asp Leu Trp Tyr Asn Leu Ala Ile
195 200 205

Val His Ile Glu Leu Lys Glu Pro Asn Glu Ala Leu Lys Lys Asn Phe
 210 215 220

Asn Arg Ala Leu Glu Leu Asn Pro Lys His Lys Leu Ala Leu Phe Asn
 225 230 235 240

Ser Ala Ile Val Met Gln Glu Ser Gly Glu Val Lys Leu Arg Pro Glu
 245 250 255

Ala Arg Lys Arg Leu Leu Ser Tyr Ile Asn Glu Glu Pro Leu Asp Ala
 260 265 270

Asn Gly Tyr Phe Asn Leu Gly Met Leu Ala Met Asp Asp Lys Lys Asp
 275 280 285

Asn Glu Ala Glu Ile Trp Met Lys Lys Ala Ile Lys Leu Gln Ala Asp
 290 295 300

Phe
 305

<210> 21
 <211> 339
 <212> PRT
 <213> Homo sapiens

<220>
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Thr Lys Ser Val Phe Lys Lys Leu Ser Trp Ile Cys Leu Ser Met Val
 1 5 10 15

Ile Leu Thr His Ser Leu Lys Thr Phe His Arg Asn Trp Asp Trp Glu
 20 25 30

Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys Asn Asn
 35 40 45

Ala Lys Leu Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu Lys Asn
 50 55 60

Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val Gln Pro
 65 70 75 80

Asp Asp Ile Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys Asn Leu
 85 90 95

Asn Arg Thr Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys Ser Leu
 100 105 110

Met Pro Gln Ile Ile Pro Gly Lys Lys Tyr Ala Ala Arg Ile Ala Pro
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115

Asn His Leu Asn Val Tyr Ile Asn Leu Ala Asn Leu Ile Arg Ala Asn
130 135 140

Glu Ser Arg Leu Glu Glu Ala Asp Gln Leu Tyr Arg Gln Ala Ile Ser
145 150 155 160

Met Arg Pro Asp Phe Lys Gln Ala Tyr Ile Ser Arg Gly Glu Leu Leu
165 170 175

Leu Lys Met Asn Lys Pro Leu Lys Ala Lys Glu Ala Tyr Leu Lys Ala
180 185 190

Leu Glu Leu Asp Arg Asn Asn Ala Asp Leu Trp Tyr Asn Leu Ala Ile
195 200 205

Val His Ile Glu Leu Lys Glu Pro Asn Glu Ala Leu Lys Lys Asn Phe
210 215 220

Asn Arg Ala Leu Glu Leu Asn Pro Lys His Lys Leu Ala Leu Phe Asn
225 230 235 240

Ser Ala Ile Val Met Gln Glu Ser Gly Glu Val Lys Leu Arg Pro Glu
245 250 255

Ala Arg Lys Arg Leu Leu Ser Tyr Ile Asn Glu Glu Pro Leu Asp Ala
260 265 270

Asn Gly Tyr Phe Asn Leu Gly Met Leu Ala Met Asp Asp Lys Lys Asp
275 280 285

Asn Glu Ala Glu Ile Trp Met Lys Lys Ala Ile Lys Leu Gln Ala Asp
290 295 300

Phe Arg Ser Ala Leu Phe Asn Leu Ala Leu Leu Tyr Ser Gln Thr Ala
305 310 315 320

Lys Glu Leu Lys Ala Leu Pro Ile Leu Glu Glu Leu Leu Arg Tyr Tyr
325 330 335

Pro Asp His

<210> 22
<211> 374
<212> PRT
<213> Homo sapiens

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<400> 22

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

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Asn Gly Tyr Phe Asn Leu Gly Met Leu Ala Met Asp Asp Lys Lys Asp
275 280 285

Asn Glu Ala Glu Ile Trp Met Lys Lys Ala Ile Lys Leu Gln Ala Asp
290 295 300

Phe Arg Ser Ala Leu Phe Asn Leu Ala Leu Leu Tyr Ser Gln Thr Ala
305 310 315 320

Lys Glu Leu Lys Ala Leu Pro Ile Leu Glu Glu Leu Leu Arg Tyr Tyr
325 330 335

Pro Asp His Ile Lys Gly Leu Ile Leu Lys Gly Asp Ile Leu Met Asn
340 345 350

Gln Lys Lys Asp Ile Leu Gly Ala Lys Lys Cys Phe Glu Arg Ile Leu
355 360 365

Glu Met Asp Pro Ser Asn
370

<210> 23
<211> 408
<212> PRT
<213> Homo sapiens

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<223> fragment of protein TMTC3, amino acids 398-805 of SEQ ID NO:4
<400> 23

Thr Lys Ser Val Phe Lys Lys Leu Ser Trp Ile Cys Leu Ser Met Val
1 5 10 15

Ile Leu Thr His Ser Leu Lys Thr Phe His Arg Asn Trp Asp Trp Glu
20 25 30

Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys Asn Asn
35 40 45

Ala Lys Leu Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu Lys Asn
50 55 60

Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val Gln Pro
65 70 75 80

Asp Asp Ile Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys Asn Leu
85 90 95

Asn Arg Thr Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys Ser Leu
100 105 110

Met Pro Gln Ile Ile Pro Gly Lys Lys Tyr Ala Ala Arg Ile Ala Pro
 115 120 125
 Asn His Leu Asn Val Tyr Ile Asn Leu Ala Asn Leu Ile Arg Ala Asn
 130 135 140
 Glu Ser Arg Leu Glu Glu Ala Asp Gln Leu Tyr Arg Gln Ala Ile Ser
 145 150 155 160
 Met Arg Pro Asp Phe Lys Gln Ala Tyr Ile Ser Arg Gly Glu Leu Leu
 165 170 175
 Leu Lys Met Asn Lys Pro Leu Lys Ala Lys Glu Ala Tyr Leu Lys Ala
 180 185 190
 Leu Glu Leu Asp Arg Asn Asn Ala Asp Leu Trp Tyr Asn Leu Ala Ile
 195 200 205
 Val His Ile Glu Leu Lys Glu Pro Asn Glu Ala Leu Lys Lys Asn Phe
 210 215 220
 Asn Arg Ala Leu Glu Leu Asn Pro Lys His Lys Leu Ala Leu Phe Asn
 225 230 235 240
 Ser Ala Ile Val Met Gln Glu Ser Gly Glu Val Lys Leu Arg Pro Glu
 245 250 255
 Ala Arg Lys Arg Leu Leu Ser Tyr Ile Asn Glu Glu Pro Leu Asp Ala
 260 265 270
 Asn Gly Tyr Phe Asn Leu Gly Met Leu Ala Met Asp Asp Lys Lys Asp
 275 280 285
 Asn Glu Ala Glu Ile Trp Met Lys Lys Ala Ile Lys Leu Gln Ala Asp
 290 295 300
 Phe Arg Ser Ala Leu Phe Asn Leu Ala Leu Leu Tyr Ser Gln Thr Ala
 305 310 315 320
 Lys Glu Leu Lys Ala Leu Pro Ile Leu Glu Glu Leu Leu Arg Tyr Tyr
 325 330 335
 Pro Asp His Ile Lys Gly Leu Ile Leu Lys Gly Asp Ile Leu Met Asn
 340 345 350
 Gln Lys Lys Asp Ile Leu Gly Ala Lys Lys Cys Phe Glu Arg Ile Leu
 355 360 365
 Glu Met Asp Pro Ser Asn Val Gln Gly Lys His Asn Leu Cys Val Val
 370 375 380
 Tyr Phe Glu Glu Lys Asp Leu Leu Lys Ala Glu Arg Cys Leu Leu Glu

385 390 395 400

Thr Leu Ala Leu Ala Pro His Glu
405

<210>	24
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<213>	Homo sapiens

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1 5 10 15

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20 25 30

Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys Asn Asn
35 40 45

Ala Lys Leu Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu Lys Asn
50 55 60

Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val Gln Pro
65 70 75 80

Asp Asp Ile Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys Asn Leu
85 90 95

Asn Arg Thr Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys Ser Leu
100 105 110

Met Pro Gln Ile Ile Pro Gly Lys Lys Tyr Ala Ala Arg Ile Ala Pro
115 120 125

Asn His Leu Asn Val Tyr Ile Asn Leu Ala Asn Leu Ile Arg Ala Asn
130 135 140

Glu Ser Arg Leu Glu Glu Ala Asp Gln Leu Tyr Arg Gln Ala Ile Ser
145 150 155 160

Met Arg Pro Asp Phe Lys Gln Ala Tyr Ile Ser Arg Gly Glu Leu Leu
165 170 175

Leu Lys Met Asn Lys Pro Leu Lys Ala Lys Glu Ala Tyr Leu Lys Ala
180 185 190

Leu Glu Leu Asp Arg Asn Asn Ala Asp Leu Trp Tyr Asn Leu Ala Ile
195 200 205

Val His Ile Glu Leu Lys Glu Pro Asn Glu Ala Leu Lys Lys Asn Phe
 210 215 220
 Asn Arg Ala Leu Glu Leu Asn Pro Lys His Lys Leu Ala Leu Phe Asn
 225 230 235 240
 Ser Ala Ile Val Met Gln Glu Ser Gly Glu Val Lys Leu Arg Pro Glu
 245 250 255
 Ala Arg Lys Arg Leu Leu Ser Tyr Ile Asn Glu Glu Pro Leu Asp Ala
 260 265 270
 Asn Gly Tyr Phe Asn Leu Gly Met Leu Ala Met Asp Asp Lys Lys Asp
 275 280 285
 Asn Glu Ala Glu Ile Trp Met Lys Lys Ala Ile Lys Leu Gln Ala Asp
 290 295 300
 Phe Arg Ser Ala Leu Phe Asn Leu Ala Leu Leu Tyr Ser Gln Thr Ala
 305 310 315 320
 Lys Glu Leu Lys Ala Leu Pro Ile Leu Glu Glu Leu Leu Arg Tyr Tyr
 325 330 335
 Pro Asp His Ile Lys Gly Leu Ile Leu Lys Gly Asp Ile Leu Met Asn
 340 345 350
 Gln Lys Lys Asp Ile Leu Gly Ala Lys Lys Cys Phe Glu Arg Ile Leu
 355 360 365
 Glu Met Asp Pro Ser Asn Val Gln Gly Lys His Asn Leu Cys Val Val
 370 375 380
 Tyr Phe Glu Glu Lys Asp Leu Leu Lys Ala Glu Arg Cys Leu Leu Glu
 385 390 395 400
 Thr Leu Ala Leu Ala Pro His Glu Glu Tyr Ile Gln Arg His Leu Asn
 405 410 415
 Ile Val Arg Asp Lys Ile Ser Ser Ser Phe Ile Glu Pro Ile Phe
 420 425 430
 Pro Thr Ser Lys Ile Ser Ser Val Glu Gly Lys Lys Ile Pro Thr Glu
 435 440 445
 Ser Val Lys Glu Ile Arg Gly Glu Ser Arg Gln Thr Gln Ile Val Lys
 450 455 460
 Thr Ser Asp Asn Lys Ser Gln Ser Lys Ser Asn Lys Gln Leu Gly Lys
 465 470 475 480

PhoenixTemp3263.tmp.txt

Asn Gly Asp Glu Glu Thr Pro His Lys Thr Thr Lys Asp Ile Lys Glu
485 490 495

Ile Glu Lys Lys Arg Val Ala Ala Leu Lys Arg Leu Glu Glu Ile Glu
500 505 510

Arg Ile Leu Asn Gly Glu
515

<210> 25
<211> 394
<212> PRT
<213> Homo sapiens

<220>
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Met Val Ile Leu Thr His Ser Leu Lys Thr Phe His Arg Asn Trp Asp
1 5 10 15

Trp Glu Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys
20 25 30

Asn Asn Ala Lys Leu Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu
35 40 45

Lys Asn Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val
50 55 60

Gln Pro Asp Asp Ile Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys
65 70 75 80

Asn Leu Asn Arg Thr Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys
85 90 95

Ser Leu Met Pro Gln Ile Ile Pro Gly Lys Lys Tyr Ala Ala Arg Ile
100 105 110

Ala Pro Asn His Leu Asn Val Tyr Ile Asn Leu Ala Asn Leu Ile Arg
115 120 125

Ala Asn Glu Ser Arg Leu Glu Glu Ala Asp Gln Leu Tyr Arg Gln Ala
130 135 140

Ile Ser Met Arg Pro Asp Phe Lys Gln Ala Tyr Ile Ser Arg Gly Glu
145 150 155 160

Leu Leu Leu Lys Met Asn Lys Pro Leu Lys Ala Lys Glu Ala Tyr Leu
165 170 175

Lys Ala Leu Glu Leu Asp Arg Asn Asn Ala Asp Leu Trp Tyr Asn Leu
180 185 190

Ala Ile Val His Ile Glu Leu Lys Glu Pro Asn Glu Ala Leu Lys Lys
195 200 205

Asn Phe Asn Arg Ala Leu Glu Leu Asn Pro Lys His Lys Leu Ala Leu
210 215 220

Phe Asn Ser Ala Ile Val Met Gln Glu Ser Gly Glu Val Lys Leu Arg
225 230 235 240

Pro Glu Ala Arg Lys Arg Leu Leu Ser Tyr Ile Asn Glu Glu Pro Leu
245 250 255

Asp Ala Asn Gly Tyr Phe Asn Leu Gly Met Leu Ala Met Asp Asp Lys
260 265 270

Lys Asp Asn Glu Ala Glu Ile Trp Met Lys Lys Ala Ile Lys Leu Gln
275 280 285

Ala Asp Phe Arg Ser Ala Leu Phe Asn Leu Ala Leu Leu Tyr Ser Gln
290 295 300

Thr Ala Lys Glu Leu Lys Ala Leu Pro Ile Leu Glu Glu Leu Leu Arg
305 310 315 320

Tyr Tyr Pro Asp His Ile Lys Gly Leu Ile Leu Lys Gly Asp Ile Leu
325 330 335

Met Asn Gln Lys Lys Asp Ile Leu Gly Ala Lys Lys Cys Phe Glu Arg
340 345 350

Ile Leu Glu Met Asp Pro Ser Asn Val Gln Gly Lys His Asn Leu Cys
355 360 365

Val Val Tyr Phe Glu Glu Lys Asp Leu Leu Lys Ala Glu Arg Cys Leu
370 375 380

Leu Glu Thr Leu Ala Leu Ala Pro His Glu
385 390

<210> 26
<211> 102
<212> PRT
<213> Homo sapiens

<220>
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<223> fragment of protein TMTC3, amino acids 412-513 of SEQ ID NO:3 or
4

<400> 26

Met Val Ile Leu Thr His Ser Leu Lys Thr Phe His Arg Asn Trp Asp
1 5 10 15

Trp Glu Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys
20 25 30

Asn Asn Ala Lys Leu Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu
35 40 45

Lys Asn Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val
50 55 60

Gln Pro Asp Asp Ile Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys
65 70 75 80

Asn Leu Asn Arg Thr Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys
85 90 95

Ser Leu Met Pro Gln Ile
100

<210> 27
<211> 104
<212> PRT
<213> Homo sapiens

<220>
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<223> fragment of protein TMTC3, amino acids 528-631 of SEQ ID NO:4
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Leu Asn Val Tyr Ile Asn Leu Ala Asn Leu Ile Arg Ala Asn Glu Ser
1 5 10 15

Arg Leu Glu Glu Ala Asp Gln Leu Tyr Arg Gln Ala Ile Ser Met Arg
20 25 30

Pro Asp Phe Lys Gln Ala Tyr Ile Ser Arg Gly Glu Leu Leu Leu Lys
35 40 45

Met Asn Lys Pro Leu Lys Ala Lys Glu Ala Tyr Leu Lys Ala Leu Glu
50 55 60

Leu Asp Arg Asn Asn Ala Asp Leu Trp Tyr Asn Leu Ala Ile Val His
65 70 75 80

Ile Glu Leu Lys Glu Pro Asn Glu Ala Leu Lys Lys Asn Phe Asn Arg
85 90 95

Ala Leu Glu Leu Asn Pro Lys His
100

<210> 28

<211> 137
 <212> PRT
 <213> Homo sapiens

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 <223> fragment of protein TMTC3, amino acids 669-805 of SEQ ID NO:4
 <400> 28

Ala Asn Gly Tyr Phe Asn Leu Gly Met Leu Ala Met Asp Asp Lys Lys
 1 5 10 15

Asp Asn Glu Ala Glu Ile Trp Met Lys Lys Ala Ile Lys Leu Gln Ala
 20 25 30

Asp Phe Arg Ser Ala Leu Phe Asn Leu Ala Leu Leu Tyr Ser Gln Thr
 35 40 45

Ala Lys Glu Leu Lys Ala Leu Pro Ile Leu Glu Glu Leu Leu Arg Tyr
 50 55 60

Tyr Pro Asp His Ile Lys Gly Leu Ile Leu Lys Gly Asp Ile Leu Met
 65 70 75 80

Asn Gln Lys Lys Asp Ile Leu Gly Ala Lys Lys Cys Phe Glu Arg Ile
 85 90 95

Leu Glu Met Asp Pro Ser Asn Val Gln Gly Lys His Asn Leu Cys Val
 100 105 110

Val Tyr Phe Glu Glu Lys Asp Leu Leu Lys Ala Glu Arg Cys Leu Leu
 115 120 125

Glu Thr Leu Ala Leu Ala Pro His Glu
 130 135

<210> 29
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> fragment of protein TMTC3, amino acids 412-445 of SEQ ID NO:4
 <400> 29

Met Val Ile Leu Thr His Ser Leu Lys Thr Phe His Arg Asn Trp Asp
 1 5 10 15

Trp Glu Ser Glu Tyr Thr Leu Phe Met Ser Ala Leu Lys Val Asn Lys
 20 25 30

Asn Asn

<210> 30
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> fragment of protein TMTC3, amino acids 446-479 of SEQ ID NO:4
 <400> 30

Ala Lys Leu Trp Asn Asn Val Gly His Ala Leu Glu Asn Glu Lys Asn
 1 5 10 15

Phe Glu Arg Ala Leu Lys Tyr Phe Leu Gln Ala Thr His Val Gln Pro
 20 25 30

Asp Asp

<210> 31
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> fragment of protein TMTC3, amino acids 481-513 of SEQ ID NO:4
 <400> 31

Gly Ala His Met Asn Val Gly Arg Thr Tyr Lys Asn Leu Asn Arg Thr
 1 5 10 15

Lys Glu Ala Glu Glu Ser Tyr Met Met Ala Lys Ser Leu Met Pro Gln
 20 25 30

Ile

<210> 32
 <211> 35
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> fragment of protein TMTC3, amino acids 528-562 of SEQ ID NO:4
 <400> 32

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

Arg Leu Glu Glu Ala Asp Gln Leu Tyr Arg Gln Ala Ile Ser Met Arg
 20 25 30

Pro Asp Phe
35

<210> 33
<211> 34
<212> PRT
<213> Homo sapiens

<220>
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<223> fragment of protein TMTC3, amino acids 563-596 of SEQ ID NO:4
<400> 33

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

Pro Leu Lys Ala Lys Glu Ala Tyr Leu Lys Ala Leu Glu Leu Asp Arg
20 25 30

Asn Asn

<210> 34
<211> 35
<212> PRT
<213> Homo sapiens

<220>
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<223> fragment of protein TMTC3, amino acids 597-631 of SEQ ID NO:4
<400> 34

Ala Asp Leu Trp Tyr Asn Leu Ala Ile Val His Ile Glu Leu Lys Glu
1 5 10 15

Pro Asn Glu Ala Leu Lys Lys Asn Phe Asn Arg Ala Leu Glu Leu Asn
20 25 30

Pro Lys His
35

<210> 35
<211> 34
<212> PRT
<213> Homo sapiens

<220>
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<223> fragment of protein TMTC3, amino acids 669-702 of SEQ ID NO:4
<400> 35

Ala Asn Gly Tyr Phe Asn Leu Gly Met Leu Ala Met Asp Asp Lys Lys
1 5 10 15

Asp Asn Glu Ala Glu Ile Trp Met Lys Lys Ala Ile Lys Leu Gln Ala
 20 25 30

Asp Phe

<210> 36
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> fragment of protein TMTC3, amino acids 704-736 of SEQ ID NO:4

<400> 36

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

Leu Lys Ala Leu Pro Ile Leu Glu Glu Leu Leu Arg Tyr Tyr Pro Asp
 20 25 30

His

<210> 37
 <211> 35
 <212> PRT
 <213> Homo sapiens

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Pro Ser Asn
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Met Ala Asn Ile Asn Leu Lys Glu Ile
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