

# SEQUENCE LISTING

<110> PLS-Design GmbH  
 Seismann, Henning  
 Braren, Ingke  
 Grunwald, Thomas

<120> CLONING AND RECOMBINANT PRODUCTION OF VESPULA VENOM PROTEASE AND  
 METHODS OF USE THEREOF

<130> PLSD001PEP

<140> EP 09003033.9  
 <141> 2009-03-03

<160> 1577

<170> PatentIn version 3.5

<210> 1  
 <211> 1173  
 <212> DNA  
 <213> Vespula vulgaris

<400> 1  
 atgaaattag ataatttttt ttttaatactt tatgtgctac taagcattat aaaatccaat 60  
 ggtactatcg atctcaattg tggctacacc caaaaattaa aatcagatgt taattattgc 120  
 gtgtataatc ctgattttcc gaattattac atgggagAAC ataattgtcg gtggagtgc 180  
 aggagcaata ctgaaattaa attgaattgc acagttttcg atgttcctcc gagttcgaat 240  
 tgttcattgg attttatgaa agtcaaagtc gacgatgaca tcgagtacgt tttctgtgga 300  
 ttaaattctt ttgcagtgga atcaatagca tcgaaaatga ctataaaatt ccattcaaga 360  
 tacaatactt atggaggcaa atttcgatgt aatctcagat cagtcaaaga gaaatgtaga 420  
 tgtggttga agaatccgtc gagaatcgta ggcggtgttg aaacaggagt gaatgaatat 480  
 cctatgatgg ctggtataat acatcttgca acgcgttttc tctattgcgg tgcaactata 540  
 ataactccgc aacatgtatt aacggctgct cattgcgttg cgaggataaa aaggatttta 600  
 tatattctag gagttgttgt tggagaacat aatacatggg caattaacga taaaaggca 660  
 actcaacttt atcttattga tgatataatc gtacatccga attataggcc aaaattaaac 720  
 gatttagctg ttataaaatt gcagaagagg taaaatatt ctatgagaat tgggtccagct 780  
 tgtcttccgt tctattacat gcagcgaac tttgtagaca ctgttggtac agctgtagga 840  
 tggggtctta cgaattttta tgggtgtcaag tctgaagttt tgagaaaagt cgatttgcat 900  
 gtagtttcaa tgaagaaatg cgtcaagtat cactttctgg ctacacctaa gcaactttgt 960  
 acattcgata tgggaaagga tgcttgccag ttcgacagtg gtggtccaat tttatggcaa 1020

```

aatccaaaaa gcaaacgtat tttccttctt ggagtcatca attatggaag aacatgtgcc      1080
gatgaagctc ctggtgttaa cttgagagtc actagttatt tagattttat tacaagatca      1140
acacctggag aaatatattg tcaggcgtat taa                                     1173

```

```

<210> 2
<211> 390
<212> PRT
<213> Vespula vulgaris

```

```

<220>
<221> Signal_sequence
<222> (1)..(21)

```

```

<220>
<221> CUB_domain
<222> (27)..(135)

```

```

<220>
<221> Trypsin-like_serine_protease
<222> (141)..(381)

```

```

<400> 2

```

```

Met Lys Leu Asp Asn Phe Phe Leu Ile Leu Tyr Val Leu Leu Ser Ile
1           5           10           15

```

```

Ile Lys Ser Asn Gly Thr Ile Asp Leu Asn Cys Gly Tyr Thr Gln Lys
          20           25           30

```

```

Leu Lys Ser Asp Val Asn Tyr Cys Val Tyr Asn Pro Asp Phe Pro Asn
          35           40           45

```

```

Tyr Tyr Met Gly Glu His Asn Cys Arg Trp Ser Ala Arg Ser Asn Thr
50           55           60

```

```

Arg Ile Lys Leu Asn Cys Thr Val Phe Asp Val Pro Pro Ser Ser Asn
65           70           75           80

```

```

Cys Ser Leu Asp Phe Met Lys Val Lys Val Asp Asp Asp Ile Glu Tyr
          85           90           95

```

```

Val Phe Cys Gly Leu Asn Ser Phe Ala Val Glu Ser Ile Ala Ser Lys
          100          105          110

```

```

Met Thr Ile Lys Phe His Ser Arg Tyr Asn Thr Tyr Gly Gly Lys Phe
          115          120          125

```

```

Arg Cys Asn Leu Arg Ser Val Lys Glu Lys Cys Arg Cys Gly Trp Lys
          130          135          140

```

Asn Pro Ser Arg Ile Val Gly Gly Val Glu Thr Gly Val Asn Glu Tyr  
145 150 155 160

Pro Met Met Ala Gly Ile Ile His Leu Ala Thr Arg Phe Leu Tyr Cys  
165 170 175

Gly Ala Thr Ile Ile Thr Pro Gln His Val Leu Thr Ala Ala His Cys  
180 185 190

Val Ala Arg Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly  
195 200 205

Glu His Asn Thr Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln Leu Tyr  
210 215 220

Leu Ile Asp Asp Ile Ile Val His Pro Asn Tyr Arg Pro Lys Leu Asn  
225 230 235 240

Asp Leu Ala Val Ile Lys Leu Gln Lys Arg Leu Lys Tyr Ser Met Arg  
245 250 255

Ile Gly Pro Ala Cys Leu Pro Phe Tyr Tyr Met Gln Arg Asn Phe Val  
260 265 270

Asp Thr Val Val Thr Ala Val Gly Trp Gly Leu Thr Asn Phe Tyr Gly  
275 280 285

Val Lys Ser Glu Val Leu Arg Lys Val Asp Leu His Val Val Ser Met  
290 295 300

Lys Lys Cys Val Lys Tyr His Phe Leu Ala Thr Pro Lys Gln Leu Cys  
305 310 315 320

Thr Phe Asp Met Gly Lys Asp Ala Cys Gln Phe Asp Ser Gly Gly Pro  
325 330 335

Ile Leu Trp Gln Asn Pro Lys Ser Lys Arg Ile Phe Leu Leu Gly Val  
340 345 350

Ile Asn Tyr Gly Arg Thr Cys Ala Asp Glu Ala Pro Gly Val Asn Leu  
355 360 365

Arg Val Thr Ser Tyr Leu Asp Phe Ile Thr Arg Ser Thr Pro Gly Glu  
370 375 380

Ile Tyr Cys Gln Ala Tyr  
385 390

<210> 3  
 <211> 381  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 3  
 actatcgatc tcaattgtgg ctacacccaa aaattaaaat cagatgttaa ttattgcgtg 60  
 tataatcctg attttccgaa ttattacatg ggagaacata attgtcgggtg gaggcttagg 120  
 agcaatactc gaattaaatt gaattgcaca gttttcgatg ttctccgag ttccaattgt 180  
 tcattggatt ttatgaaagt caaagtcgac gatgacatcg agtacgtttt ctgtggatta 240  
 aattcttttg cagtgggaatc aatagcatcg aaaatgacta taaaattcca ttcaagatac 300  
 aatacttatg gaggcaaatt tcgatgtaat ctcagatcag tcaaagagaa atgtagatgt 360  
 ggttggaaga atccgtcgag a 381

<210> 4  
 <211> 360  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 4  
 atcgtaggcg gtgttgaaac aggagtgaat gaatatccta tgatggctgg tataatacat 60  
 cttgcaacgc gttttctcta ttgcggtgca actataataa ctccgcaaca tgtattaacg 120  
 gctgctcatt gcgttgcgag gtataaaagg attttatata ttctaggagt tgttggtgga 180  
 gaacataata catgggcaat taacgataca aaggcaactc aactttatct tattgatgat 240  
 ataatcgtag atccgaatta taggccaaaa ttaaacgatt tagctgttat aaaattgcag 300  
 aagagggttaa aatattctat gagaattggg ccagcttggtc ttccgttcta ttacatgcag 360

<210> 5  
 <211> 366  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 5  
 cgaaactttg tagacactgt tgttacagct gtaggatggg gtcttacgaa tttttatggg 60  
 gtcaagtctg aagttttgag aaaagtcgat ttgcatgtag tttcaatgaa gaaatgcgtc 120  
 aagtatcact ttctgggtac acctaagcaa ctttgtacat tcgatatggg aaaggatgct 180  
 tgccagttcg acagtgggtg tccaatttta tggcaaaatc caaaaagcaa acgtattttc 240  
 cttcttggag tcatcaatta tggaagaaca tgtgccgatg aagctcctgg tgttaacttg 300  
 agagtcacta gttattttaga ttttattaca agatcaacac ctggagaaat atattgtcag 360  
 gcgtat 366

<210> 6

<211> 417  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 6  
 tgtggattaa attcttttgc agtggaatca atagcatcga aaatgactat aaaattccat 60  
 tcaagataca atacttatgg aggcaaattt cgatgtaatc tcagatcagt caaagagaaa 120  
 tgtagatgtg gttggaagaa tccgtcgaga atcgtaggcg gtgttgaaac aggagtgaat 180  
 gaatatccta tgatggctgg tataatacat cttgcaacgc gttttctcta ttgcggtgca 240  
 actataataa ctccgcaaca tgtattaacg gctgctcatt gcgttgcgag gtataaaagg 300  
 attttatata ttctaggagt tgttggttga gaacataata catgggcaat taacgataca 360  
 aaggcaactc aactttatct tattgatgat ataatcgtac atccgaatta taggcca 417

<210> 7  
 <211> 360  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 7  
 aaattaaacg atttagctgt tataaaattg cagaagaggt taaaatattc tatgagaatt 60  
 ggtccagctt gtcttccgtt ctattacatg cagcgaaact ttgtagacac tgttggtaca 120  
 gctgtaggat ggggtcttac gaatttttat ggtgtcaagt ctgaagtttt gagaaaagtc 180  
 gatattgcatg tagtttcaat gaagaaatgc gtcaagtatc actttctggc tacacctaag 240  
 caactttgta cattcgatat gggaaaggat gcttgccagt tcgacagtgg tggccaatt 300  
 ttatggcaaa atccaaaaag caaacgtatt ttccttcttg gagtcatcaa ttatggaaga 360

<210> 8  
 <211> 342  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 8  
 actatcgatc tcaattgtgg ctacacccaa aaattaaaat cagatgttaa ttattgcgtg 60  
 tataatcctg attttccgaa ttattacatg ggagaacata attgtcggtg gagtgctagg 120  
 agcaatactc gaattaaatt gaattgcaca gttttcgatg ttcctccgag ttcgaattgt 180  
 tcattggatt ttatgaaagt caaagtcgac gatgacatcg agtacgtttt ctgtggatta 240  
 aattcttttg cagtggaatc aatagcatcg aaaatgacta taaaattcca ttcaagatac 300  
 aatacttatg gaggcaaatt tcgatgtaat ctcagatcag tc 342

<210> 9  
 <211> 291  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 9  
aaagagaaat gtagatgtgg ttggaagaat ccgtcgagaa tcgtaggcgg tgttgaaaca 60  
ggagtgaatg aatatactat gatggctggg ataatacatc ttgcaacgcg ttttctctat 120  
tgcggtgcaa ctataataac tccgcaacat gtattaacgg ctgctcattg cggtgcgagg 180  
tataaaagga ttttatatat tctaggagtt gttgttggag aacataatac atgggcaatt 240  
aacgatacaa aggcaactca actttatctt attgatgata taatcgtaca t 291

<210> 10  
<211> 243  
<212> DNA  
<213> *Vespula vulgaris*

<400> 10  
ccgaattata ggccaaaatt aaacgattta gctgttataa aattgcagaa gaggttaaaa 60  
tattctatga gaattgggtcc agcttgtctt ccgttctatt acatgcagcg aaactttgta 120  
gacactgttg ttacagctgt aggatggggg cttacgaatt tttatggtgt caagtctgaa 180  
gttttgagaa aagtcgattt gcatgtagtt tcaatgaaga aatgcgtcaa gtatcacttt 240  
ctg 243

<210> 11  
<211> 231  
<212> DNA  
<213> *Vespula vulgaris*

<400> 11  
gctacaccta agcaactttg tacattcgat atgggaaagg atgcttgcca gttcgacagt 60  
ggtggtccaa ttttatggca aaatccaaaa agcaaacgta ttttccttct tggagtcac 120  
aattatggaa gaacatgtgc cgatgaagct cctggtgtta acttgagagt cactagttat 180  
ttagatttta ttacaagatc aacacctgga gaaatatatt gtcaggcgta t 231

<210> 12  
<211> 299  
<212> DNA  
<213> *Vespula vulgaris*

<400> 12  
gatgacatcg agtacgtttt ctgtggatta aattcttttg cagtggaatc aatagcatcg 60  
aaaatgacta taaaattcca ttcaagatac aatacttatg gaggcaaatt tcgatgtaat 120  
ctcagatcag tcaaagagaa atgtagatgt ggttggaaga atccgtcgag aatcgtaggc 180  
ggtgttgaaa caggagtga tgaatatact atgatggctg gtataatata tcttgcaacg 240  
cgttttctct attgcggtgc aactataata actccgcaac atgtattaac ggctgctca 299

<210> 13  
<211> 270

<212> DNA

<213> *Vespula vulgaris*

<400> 13

gttgcgaggt ataaaaggat tttatatatt ctaggagttg ttgttggaga acataataca	60
tgggcaatta acgatacaaa ggcaactcaa ctttatctta ttgatgatat aatcgtacat	120
ccgaattata ggccaaaatt aaacgattta gctgttataa aattgcagaa gaggttaaaa	180
tattctatga gaattggtcc agcttgtctt ccgttctatt acatgcagcg aaactttgta	240
gacactgttg ttacagctgt aggatggggt	270

<210> 14

<211> 270

<212> DNA

<213> *Vespula vulgaris*

<400> 14

cttacgaatt tttatgggtgt caagtctgaa gttttgagaa aagtcgattt gcatgtagtt	60
tcaatgaaga aatgcgtcaa gtatcacttt ctggctacac ctaagcaact ttgtacattc	120
gatatgggaa aggatgcttg ccagttcgac agtggtggtc caattttatg gcaaaatcca	180
aaaagcaaac gtattttcct tcttgagagtc atcaattatg gaagaacatg tgccgatgaa	240
gctcctggtg ttaacttgag agtcactagt	270

<210> 15

<211> 159

<212> DNA

<213> *Vespula vulgaris*

<400> 15

actatcgatc tcaattgtgg ctacacccaa aaattaaaat cagatgttaa ttattgcgtg	60
tataatcctg attttccgaa ttattacatg ggagaacata attgtcgggtg gagtgctagg	120
agcaatactc gaattaaatt gaattgcaca gttttcgat	159

<210> 16

<211> 183

<212> DNA

<213> *Vespula vulgaris*

<400> 16

gttcctccga gttcgaattg ttcattggat tttatgaaag tcaaagtcga cgatgacatc	60
gagtacgttt tctgtggatt aaattctttt gcagtggaat caatagcatc gaaaatgact	120
ataaaaattcc attcaagata caatacttat ggaggcaaatt ttcgatgtaa tctcagatca	180
gtc	183

<210> 17

<211> 165

<212> DNA

<213> *Vespula vulgaris*

<400> 17

aaagagaaat gtagatgtgg ttggaagaat ccgtcgagaa tcgtaggcgg tgttgaaaca 60

ggagtgaatg aatatactat gatggctggg ataatacatc ttgcaacgcg ttttctctat 120

tgcggtgcaa ctataataac tccgcaacat gtattaacgg ctgct 165

<210> 18

<211> 150

<212> DNA

<213> *Vespula vulgaris*

<400> 18

cattgcgttg cgaggtataa aaggatttta tatattctag gagttgttgt tggagaacat 60

aatacatggg caattaacga tacaaggca actcaacttt atcttattga tgatataatc 120

gtacatccga attataggcc aaaattaaac 150

<210> 19

<211> 132

<212> DNA

<213> *Vespula vulgaris*

<400> 19

gatttagctg ttataaaatt gcagaagagg ttaaaatatt ctatgagaat tggccagct 60

tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctgttggtac agctgtagga 120

tggggtctta cg 132

<210> 20

<211> 150

<212> DNA

<213> *Vespula vulgaris*

<400> 20

aatttttatg gtgtcaagtc tgaagttttg agaaaagtcg atttgcattg agtttcaatg 60

aagaaatgcg tcaagtatca ctttctggct acacctaacg aactttgtac attcgatatg 120

ggaaaggatg cttgccagtt cgacagtggt 150

<210> 21

<211> 168

<212> DNA

<213> *Vespula vulgaris*

<400> 21

ggtccaattt tatggcaaaa tccaaaaagc aaacgtattt tccttcttgg agtcatcaat 60

tatggaagaa catgtgccga tgaagtcct ggtgttaact tgagagtcac tagttattta 120

gattttatta caagatcaac acctggagaa atatattgtc aggcgtat 168

<210> 22



<211> 153  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 22  
 ggagaacata attgtcggtg gagtgctagg agcaatactc gaattaaatt gaattgcaca 60  
 gttttcgatg ttcctccgag ttcgaattgt tcattggatt ttatgaaagt caaagtcgac 120  
 gatgacatcg agtacgtttt ctgtggatta aat 153

<210> 23  
 <211> 171  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 23  
 tttgcagtgg aatcaatagc atcgaaaatg actataaaat tccattcaag atacaatact 60  
 tatggaggca aatttcgatg taatctcaga tcagtcaaag agaaatgtag atgtggttgg 120  
 aagaatccgt cgagaatcgt aggcggtggt gaaacaggag tgaatgaata t 171

<210> 24  
 <211> 159  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 24  
 cctatgatgg ctggtataat acatcttgca acgcgttttc tctattgcgg tgcaactata 60  
 ataactccgc aacatgtatt aacggctgct cattgcgttg cgaggtataa aaggatttta 120  
 tatattctag gagttgttgt tggagaacat aatacatgg 159

<210> 25  
 <211> 165  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 25  
 gcaattaacg atacaaaggc aactcaactt tatcttattg atgatataat cgtacatccg 60  
 aattataggc caaaattaaa cgatttagct gttataaaat tgcagaagag gttaaaatat 120  
 tctatgagaa ttggtccagc ttgtcttccg ttctattaca tgcag 165

<210> 26  
 <211> 141  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 26  
 cgaaactttg tagacactgt tgttacagct gtaggatggg gtcttacgaa tttttatgg 60  
 gtcaagtctg aagttttgag aaaagtcgat ttgcatgtag tttcaatgaa gaaatgcgtc 120  
 aagtatcact ttctggctac a 141

<210> 27  
 <211> 144  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 27  
 cctaagcaac tttgtacatt cgatatggga aaggatgctt gccagttcga cagtgggtggt 60  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttcttggagt catcaattat 120  
 ggaagaacat gtgccgatga agct 144

<210> 28  
 <211> 127  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 28

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

Asn Tyr Cys Val Tyr Asn Pro Asp Phe Pro Asn Tyr Tyr Met Gly Glu  
 20 25 30

His Asn Cys Arg Trp Ser Ala Arg Ser Asn Thr Arg Ile Lys Leu Asn  
 35 40 45

Cys Thr Val Phe Asp Val Pro Pro Ser Ser Asn Cys Ser Leu Asp Phe  
 50 55 60

Met Lys Val Lys Val Asp Asp Asp Ile Glu Tyr Val Phe Cys Gly Leu  
 65 70 75 80

Asn Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe  
 85 90 95

His Ser Arg Tyr Asn Thr Tyr Gly Gly Lys Phe Arg Cys Asn Leu Arg  
 100 105 110

Ser Val Lys Glu Lys Cys Arg Cys Gly Trp Lys Asn Pro Ser Arg  
 115 120 125

<210> 29  
 <211> 120  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 29

Ile Val Gly Gly Val Glu Thr Gly Val Asn Glu Tyr Pro Met Met Ala  
 1 5 10 15

Gly Ile Ile His Leu Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile  
                   20                                  25                                  30

Ile Thr Pro Gln His Val Leu Thr Ala Ala His Cys Val Ala Arg Tyr  
           35                                  40                                  45

Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly Glu His Asn Thr  
       50                                  55                                  60

Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln Leu Tyr Leu Ile Asp Asp  
   65                                  70                                  75                                  80

Ile Ile Val His Pro Asn Tyr Arg Pro Lys Leu Asn Asp Leu Ala Val  
                                   85                                  90                                  95

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

Cys Leu Pro Phe Tyr Tyr Met Gln  
       115                                  120

<210> 30  
 <211> 122  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 30

Arg Asn Phe Val Asp Thr Val Val Thr Ala Val Gly Trp Gly Leu Thr  
   1                                  5                                  10                                  15

Asn Phe Tyr Gly Val Lys Ser Glu Val Leu Arg Lys Val Asp Leu His  
           20                                  25                                  30

Val Val Ser Met Lys Lys Cys Val Lys Tyr His Phe Leu Ala Thr Pro  
           35                                  40                                  45

Lys Gln Leu Cys Thr Phe Asp Met Gly Lys Asp Ala Cys Gln Phe Asp  
       50                                  55                                  60

Ser Gly Gly Pro Ile Leu Trp Gln Asn Pro Lys Ser Lys Arg Ile Phe  
   65                                  70                                  75                                  80

Leu Leu Gly Val Ile Asn Tyr Gly Arg Thr Cys Ala Asp Glu Ala Pro  
                   85                                  90                                  95

Gly Val Asn Leu Arg Val Thr Ser Tyr Leu Asp Phe Ile Thr Arg Ser  
           100                                  105                                  110

Thr Pro Gly Glu Ile Tyr Cys Gln Ala Tyr  
 115 120

<210> 31  
 <211> 139  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 31

Cys Gly Leu Asn Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr  
 1 5 10 15

Ile Lys Phe His Ser Arg Tyr Asn Thr Tyr Gly Gly Lys Phe Arg Cys  
 20 25 30

Asn Leu Arg Ser Val Lys Glu Lys Cys Arg Cys Gly Trp Lys Asn Pro  
 35 40 45

Ser Arg Ile Val Gly Gly Val Glu Thr Gly Val Asn Glu Tyr Pro Met  
 50 55 60

Met Ala Gly Ile Ile His Leu Ala Thr Arg Phe Leu Tyr Cys Gly Ala  
 65 70 75 80

Thr Ile Ile Thr Pro Gln His Val Leu Thr Ala Ala His Cys Val Ala  
 85 90 95

Arg Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly Glu His  
 100 105 110

Asn Thr Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln Leu Tyr Leu Ile  
 115 120 125

Asp Asp Ile Ile Val His Pro Asn Tyr Arg Pro  
 130 135

<210> 32  
 <211> 120  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 32

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

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

Asn Phe Val Asp Thr Val Val Thr Ala Val Gly Trp Gly Leu Thr Asn  
 35 40 45

Phe Tyr Gly Val Lys Ser Glu Val Leu Arg Lys Val Asp Leu His Val  
 50 55 60

Val Ser Met Lys Lys Cys Val Lys Tyr His Phe Leu Ala Thr Pro Lys  
 65 70 75 80

Gln Leu Cys Thr Phe Asp Met Gly Lys Asp Ala Cys Gln Phe Asp Ser  
 85 90 95

Gly Gly Pro Ile Leu Trp Gln Asn Pro Lys Ser Lys Arg Ile Phe Leu  
 100 105 110

Leu Gly Val Ile Asn Tyr Gly Arg  
 115 120

<210> 33

<211> 114

<212> PRT

<213> *Vespula vulgaris*

<400> 33

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

Asn Tyr Cys Val Tyr Asn Pro Asp Phe Pro Asn Tyr Tyr Met Gly Glu  
 20 25 30

His Asn Cys Arg Trp Ser Ala Arg Ser Asn Thr Arg Ile Lys Leu Asn  
 35 40 45

Cys Thr Val Phe Asp Val Pro Pro Ser Ser Asn Cys Ser Leu Asp Phe  
 50 55 60

Met Lys Val Lys Val Asp Asp Asp Ile Glu Tyr Val Phe Cys Gly Leu  
 65 70 75 80

Asn Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe  
 85 90 95

His Ser Arg Tyr Asn Thr Tyr Gly Gly Lys Phe Arg Cys Asn Leu Arg  
 100 105 110

Ser Val

<210> 34  
 <211> 97  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 34

Lys Glu Lys Cys Arg Cys Gly Trp Lys Asn Pro Ser Arg Ile Val Gly  
 1 5 10 15

Gly Val Glu Thr Gly Val Asn Glu Tyr Pro Met Met Ala Gly Ile Ile  
 20 25 30

His Leu Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro  
 35 40 45

Gln His Val Leu Thr Ala Ala His Cys Val Ala Arg Tyr Lys Arg Ile  
 50 55 60

Leu Tyr Ile Leu Gly Val Val Val Gly Glu His Asn Thr Trp Ala Ile  
 65 70 75 80

Asn Asp Thr Lys Ala Thr Gln Leu Tyr Leu Ile Asp Asp Ile Ile Val  
 85 90 95

His

<210> 35  
 <211> 81  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 35

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

Lys Arg Leu Lys Tyr Ser Met Arg Ile Gly Pro Ala Cys Leu Pro Phe  
 20 25 30

Tyr Tyr Met Gln Arg Asn Phe Val Asp Thr Val Val Thr Ala Val Gly  
 35 40 45

Trp Gly Leu Thr Asn Phe Tyr Gly Val Lys Ser Glu Val Leu Arg Lys  
 50 55 60

Val Asp Leu His Val Val Ser Met Lys Lys Cys Val Lys Tyr His Phe  
 65 70 75 80

Leu

<210> 36  
 <211> 77  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 36

Ala Thr Pro Lys Gln Leu Cys Thr Phe Asp Met Gly Lys Asp Ala Cys  
 1 5 10 15

Gln Phe Asp Ser Gly Gly Pro Ile Leu Trp Gln Asn Pro Lys Ser Lys  
 20 25 30

Arg Ile Phe Leu Leu Gly Val Ile Asn Tyr Gly Arg Thr Cys Ala Asp  
 35 40 45

Glu Ala Pro Gly Val Asn Leu Arg Val Thr Ser Tyr Leu Asp Phe Ile  
 50 55 60

Thr Arg Ser Thr Pro Gly Glu Ile Tyr Cys Gln Ala Tyr  
 65 70 75

<210> 37  
 <211> 101  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 37

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

Ser Ile Ala Ser Lys Met Thr Ile Lys Phe His Ser Arg Tyr Asn Thr  
 20 25 30

Tyr Gly Gly Lys Phe Arg Cys Asn Leu Arg Ser Val Lys Glu Lys Cys  
 35 40 45

Arg Cys Gly Trp Lys Asn Pro Ser Arg Ile Val Gly Gly Val Glu Thr  
 50 55 60

Gly Val Asn Glu Tyr Pro Met Met Ala Gly Ile Ile His Leu Ala Thr  
 65 70 75 80

Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro Gln His Val Leu  
 85 90 95

Thr Ala Ala His Cys  
 100

<210> 38  
 <211> 90  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 38

Val Ala Arg Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly  
 1 5 10 15

Glu His Asn Thr Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln Leu Tyr  
 20 25 30

Leu Ile Asp Asp Ile Ile Val His Pro Asn Tyr Arg Pro Lys Leu Asn  
 35 40 45

Asp Leu Ala Val Ile Lys Leu Gln Lys Arg Leu Lys Tyr Ser Met Arg  
 50 55 60

Ile Gly Pro Ala Cys Leu Pro Phe Tyr Tyr Met Gln Arg Asn Phe Val  
 65 70 75 80

Asp Thr Val Val Thr Ala Val Gly Trp Gly  
 85 90

<210> 39  
 <211> 91  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 39

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

Leu His Val Val Ser Met Lys Lys Cys Val Lys Tyr His Phe Leu Ala  
 20 25 30

Thr Pro Lys Gln Leu Cys Thr Phe Asp Met Gly Lys Asp Ala Cys Gln  
 35 40 45

Phe Asp Ser Gly Gly Pro Ile Leu Trp Gln Asn Pro Lys Ser Lys Arg  
 50 55 60

Ile Phe Leu Leu Gly Val Ile Asn Tyr Gly Arg Thr Cys Ala Asp Glu  
 65 70 75 80

Ala Pro Gly Val Asn Leu Arg Val Thr Ser Tyr  
 85 90



<210> 40  
 <211> 53  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 40

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

Asn Tyr Cys Val Tyr Asn Pro Asp Phe Pro Asn Tyr Tyr Met Gly Glu  
 20 25 30

His Asn Cys Arg Trp Ser Ala Arg Ser Asn Thr Arg Ile Lys Leu Asn  
 35 40 45

Cys Thr Val Phe Asp  
 50

<210> 41  
 <211> 61  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 41

Val Pro Pro Ser Ser Asn Cys Ser Leu Asp Phe Met Lys Val Lys Val  
 1 5 10 15

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

Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe His Ser Arg Tyr Asn  
 35 40 45

Thr Tyr Gly Gly Lys Phe Arg Cys Asn Leu Arg Ser Val  
 50 55 60

<210> 42  
 <211> 55  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 42

Lys Glu Lys Cys Arg Cys Gly Trp Lys Asn Pro Ser Arg Ile Val Gly  
 1 5 10 15

Gly Val Glu Thr Gly Val Asn Glu Tyr Pro Met Met Ala Gly Ile Ile  
 20 25 30

His Leu Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro

35                                      40                                      45  
 Gln His Val Leu Thr Ala Ala  
   50                                      55  
  
 <210> 43  
 <211> 50  
 <212> PRT  
 <213> *Vespula vulgaris*  
  
 <400> 43  
 His Cys Val Ala Arg Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val  
 1                                      5                                      10                                      15  
  
 Val Gly Glu His Asn Thr Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln  
                                     20                                      25                                      30  
  
 Leu Tyr Leu Ile Asp Asp Ile Ile Val His Pro Asn Tyr Arg Pro Lys  
                                     35                                      40                                      45  
  
 Leu Asn  
   50  
  
 <210> 44  
 <211> 44  
 <212> PRT  
 <213> *Vespula vulgaris*  
  
 <400> 44  
 Asp Leu Ala Val Ile Lys Leu Gln Lys Arg Leu Lys Tyr Ser Met Arg  
 1                                      5                                      10                                      15  
  
 Ile Gly Pro Ala Cys Leu Pro Phe Tyr Tyr Met Gln Arg Asn Phe Val  
                                     20                                      25                                      30  
  
 Asp Thr Val Val Thr Ala Val Gly Trp Gly Leu Thr  
                                     35                                      40  
  
 <210> 45  
 <211> 50  
 <212> PRT  
 <213> *Vespula vulgaris*  
  
 <400> 45  
 Asn Phe Tyr Gly Val Lys Ser Glu Val Leu Arg Lys Val Asp Leu His  
 1                                      5                                      10                                      15  
  
 Val Val Ser Met Lys Lys Cys Val Lys Tyr His Phe Leu Ala Thr Pro  
                                     20                                      25                                      30

Lys Gln Leu Cys Thr Phe Asp Met Gly Lys Asp Ala Cys Gln Phe Asp  
           35                          40                          45

Ser Gly  
       50

<210> 46  
 <211> 56  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 46

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

Gly Val Ile Asn Tyr Gly Arg Thr Cys Ala Asp Glu Ala Pro Gly Val  
                           20                          25                          30

Asn Leu Arg Val Thr Ser Tyr Leu Asp Phe Ile Thr Arg Ser Thr Pro  
                           35                          40                          45

Gly Glu Ile Tyr Cys Gln Ala Tyr  
       50                          55

<210> 47  
 <211> 52  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 47

Gly Glu His Asn Cys Arg Trp Ser Ala Arg Ser Asn Thr Arg Ile Lys  
 1                          5                          10                          15

Leu Asn Cys Thr Val Phe Asp Val Pro Pro Ser Ser Asn Cys Ser Leu  
                           20                          25                          30

Asp Phe Met Lys Val Lys Val Asp Asp Asp Ile Glu Tyr Val Phe Cys  
                           35                          40                          45

Gly Leu Asn Ser  
       50

<210> 48  
 <211> 57  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 48

Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe His Ser



<212> PRT  
 <213> *Vespula vulgaris*

<400> 51

Arg Asn Phe Val Asp Thr Val Val Thr Ala Val Gly Trp Gly Leu Thr  
 1 5 10 15

Asn Phe Tyr Gly Val Lys Ser Glu Val Leu Arg Lys Val Asp Leu His  
 20 25 30

Val Val Ser Met Lys Lys Cys Val Lys Tyr His Phe Leu Ala Thr  
 35 40 45

<210> 52  
 <211> 48  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 52

Pro Lys Gln Leu Cys Thr Phe Asp Met Gly Lys Asp Ala Cys Gln Phe  
 1 5 10 15

Asp Ser Gly Gly Pro Ile Leu Trp Gln Asn Pro Lys Ser Lys Arg Ile  
 20 25 30

Phe Leu Leu Gly Val Ile Asn Tyr Gly Arg Thr Cys Ala Asp Glu Ala  
 35 40 45

<210> 53  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 53  
 agtgggtggtc caattttatg gcaaaatcca aaaagcaaac gtatt 45

<210> 54  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 54  
 ggtggtccaa ttttatggca aaatccaaaa agcaaacgta ttttc 45

<210> 55  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 55  
 ggtccaattt tatggcaaaa tccaaaaagc aaacgtatctt tcctt 45

<210> 56  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 56  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45

<210> 57  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 57  
 attttatggc aaaatccaaa aagcaaactg attttccttc ttgga 45

<210> 58  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 58  
 taccctatga tggctggtat aatacatctt gcaacgcgtt ttctc 45

<210> 59  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 59  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 60  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 60  
 tttgcagtgg aatcaatagc atcgaaaatg actataaaat tccat 45

<210> 61  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 61  
 aattcttttg cagtggaaatc aatagcatcg aaaatgacta taaaa 45

<210> 62  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 62  
 cctatgatgg ctggtataat acatcttgca acgcgttttc tctat 45

<210> 63  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 63  
 tttaaattctt ttgcagtgga atcaatagca tcgaaaatga ctata 45  
  
 <210> 64  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 64  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45  
  
 <210> 65  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 65  
 ggattaaatt cttttgcagt ggaatcaata gcatcgaaaa tgact 45  
  
 <210> 66  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 66  
 gctgggtataa tacatcttgc aacgcgtttt ctctattgcg gtgca 45  
  
 <210> 67  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 67  
 atgatggctg gtataatata tcttgcaacg cgttttctct attgc 45  
  
 <210> 68  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 68  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45  
  
 <210> 69  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 69  
 tacgttttct gtggattaaa ttcttttgca gtggaatcaa tagca 45

<210> 70  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 70  
 atcgagtacg ttttctgtgg attaaattct tttgcagtgg aatca 45  
  
 <210> 71  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 71  
 gacatcgagt acgttttctg tggattaaat tcttttgcag tggaa 45  
  
 <210> 72  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 72  
 gatgacatcg agtacgtttt ctgtggatta aattcttttg cagtg 45  
  
 <210> 73  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 73  
 gtgaatgaat atcctatgat ggctgggata atacatcttg caacg 45  
  
 <210> 74  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 74  
 aatgaatatc ctatgatggc tggataata catcttgcaa cgcgt 45  
  
 <210> 75  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 75  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45  
  
 <210> 76  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 76  
 ggagtgaatg aatatacctat gatggctggg ataatacatc ttgca 45



<210> 77  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 77  
 acgaattttt atggtgtcaa gtctgaagtt ttgagaaaag tcgat 45  
  
 <210> 78  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 78  
 ttatggcaaa atccaaaaag caaacgtatt ttccttcttg gagtc 45  
  
 <210> 79  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 79  
 tggcaaaatc caaaaagcaa acgtattttc cttcttggag tcatc 45  
  
 <210> 80  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 80  
 aagaggttaa aatattctat gagaattggt ccagcttgtc ttccg 45  
  
 <210> 81  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 81  
 gaatatccta tgatggctgg tataatacat cttgcaacgc gtttt 45  
  
 <210> 82  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 82  
 ttaaaatatt ctatgagaat tggccagct tgtcttccgt tctat 45  
  
 <210> 83  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 83  
 aaatattcta tgagaattgg tccagcttgt cttccgttct attac 45

<210> 84  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 84  
 aggttaaaat attctatgag aattggtcca gcttgtcttc cgttc 45

<210> 85  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 85  
 gcgaggtata aaaggatttt atatattcta ggagttgttg ttgga 45

<210> 86  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 86  
 gcagtggaat caatagcatc gaaaatgact ataaaattcc attca 45

<210> 87  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 87  
 tattctatga gaattggtcc agcttgtctt ccgttctatt acatg 45

<210> 88  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 88  
 gtggaatcaa tagcatcgaa aatgactata aaattccatt caaga 45

<210> 89  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 89  
 gacactgttg ttacagctgt aggatggggt cttacgaatt tttat 45

<210> 90  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 90  
 cttgcaacgc gttttctcta ttgcggtgca actataataa ctccg 45

<210> 91  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 91  
 aatttttatg gtgtcaagtc tgaagttttg agaaaagtcg atttg 45

<210> 92  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 92  
 ggtataatac atcttgcaac gcgttttctc tattgcggtg caact 45

<210> 93  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 93  
 tgggggtctta cgaattttta tgggtgtcaag tctgaagttt tgaga 45

<210> 94  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 94  
 ttttatggtg tcaagtctga agttttgaga aaagtcgatt tgcatt 45

<210> 95  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 95  
 ataatacatc ttgcaacgcg ttttctctat tgcggtgcaa ctata 45

<210> 96  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 96  
 ggatggggtc ttacgaattt ttatggtgtc aagtctgaag ttttg 45

<210> 97  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 97  
 aggtataaaa ggattttata tattctagga gttgttggtg gagaa 45

<210> 98  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 98  
 tataaaagga ttttatatat tctaggagtt gttgttggag aacat 45  
  
 <210> 99  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 99  
 cgttttctct attgcggtgc aactataata actccgcaac atgta 45  
  
 <210> 100  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 100  
 aaaaggattt tatatattct aggagttggt gttggagaac ataat 45  
  
 <210> 101  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 101  
 acgcgttttc tctattgcgg tgcaactata ataactccgc aacat 45  
  
 <210> 102  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 102  
 gcaacgcgtt ttctctattg cggtgcaact ataataactc cgcaa 45  
  
 <210> 103  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 103  
 gaaacaggag tgaatgaata tcctatgatg gctggtataa tacat 45  
  
 <210> 104  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 104  
 acaggagtga atgaatatcc tatgatggct ggtataatac atctt 45

<210> 105  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 105  
 ggtcttacga atttttatgg tgtcaagtct gaagttttga gaaaa 45  
  
 <210> 106  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 106  
 gttttctgtg gattaaattc ttttgcagtg gaatcaatag catcg 45  
  
 <210> 107  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 107  
 ttctgtggat taaattcttt tgcagtggaa tcaatagcat cgaaa 45  
  
 <210> 108  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 108  
 actgttggtta cagctgtagg atgggggtctt acgaattttt atggt 45  
  
 <210> 109  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 109  
 aactttgtag aactgttgt tacagctgta ggatgggggtc ttacg 45  
  
 <210> 110  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 110  
 cataatacat gggcaattaa cgatacaaag gcaactcaac tttat 45  
  
 <210> 111  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 111  
 aggattttat atattctagg agttgttggt ggagaacata ataca 45

<210> 112  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 112  
 aatacatggg caattaacga taaaaggca actcaacttt atctt 45  
  
 <210> 113  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 113  
 tattgcggtg caactataat aactccgcaa catgtattaa cggct 45  
  
 <210> 114  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 114  
 gaacataata catgggcaat taacgatata aaggcaactc aactt 45  
  
 <210> 115  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 115  
 tttgtagaca ctgttggttac agctgtagga tgggggtctta cgaat 45  
  
 <210> 116  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 116  
 gttgttacag ctgtaggatg ggggtcttacg aatTTTTatg gtgtc 45  
  
 <210> 117  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 117  
 tgcggtgcaa ctataataac tccgcaacat gtattaacgg ctgct 45  
  
 <210> 118  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 118  
 tttctctatt gcggtgcaac tataataact ccgcaacatg tatta 45

<210> 119  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 119  
 cgaaactttg tagacactgt tgttacagct gtaggatggg gtctt 45  
  
 <210> 120  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 120  
 acagctgtag gatgggggtct tacgaatttt tatgggtgtca agtct 45  
  
 <210> 121  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 121  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45  
  
 <210> 122  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 122  
 gtcaagtatc actttctggc tacacctaag caactttgta cattc 45  
  
 <210> 123  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 123  
 catcttgcaa cgcgttttct ctattgcggt gcaactataa taact 45  
  
 <210> 124  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 124  
 ccgaattata ggccaaaatt aaacgattta gctgttataa aattg 45  
  
 <210> 125  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 125  
 ggtgcaacta taataactcc gcaacatgta ttaacggctg ctcat 45

<210> 126  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 126  
 gtagacactg ttgttacagc tgtaggatgg ggtcttacga atttt 45  
  
 <210> 127  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 127  
 gcaactataa taactccgca acatgtatta acggctgctc attgc 45  
  
 <210> 128  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 128  
 tatggtgtca agtctgaagt tttagaaaa gtcgatttgc atgta 45  
  
 <210> 129  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 129  
 actataataa ctccgcaaca tgtattaacg gctgctcatt gcggt 45  
  
 <210> 130  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 130  
 ctctattgcg gtgcaactat aataactccg caacatgtat taacg 45  
  
 <210> 131  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 131  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45  
  
 <210> 132  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 132  
 ccaaaattaa acgatttagc tgttataaaa ttgcagaaga ggtta 45



<210> 133  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 133  
 aaatgcgtca agtatcactt tctggctaca cctaagcaac tttgt 45  
  
 <210> 134  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 134  
 tataggccaa aattaaacga tttagctggt ataaaattgc agaag 45  
  
 <210> 135  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 135  
 tctatgagaa ttggtccagc ttgtcttccg ttctattaca tgcag 45  
  
 <210> 136  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 136  
 aattataggc caaaattaaa cgatttagct gttataaaat tgcag 45  
  
 <210> 137  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 137  
 gttacagctg taggatgggg tcttacgaat ttttatgggtg tcaag 45  
  
 <210> 138  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 138  
 atgagaattg gtccagcttg tcttccgttc tattacatgc agcga 45  
  
 <210> 139  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 139  
 aagaaatgcg tcaagtatca ctttctggct acacctaagc aactt 45

<210> 140  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 140  
 gttggagaac ataatacatg ggcaattaac gatacaaagg caact 45  
  
 <210> 141  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 141  
 gttgcgaggt ataaaaggat tttatatatt ctaggagttg ttgtt 45  
  
 <210> 142  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 142  
 ggagaacata atacatgggc aattaacgat acaaaggcaa ctcaa 45  
  
 <210> 143  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 143  
 tacatgcagc gaaactttgt agacactggt gttacagctg tagga 45  
  
 <210> 144  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 144  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45  
  
 <210> 145  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 145  
 tgggcaatta acgatacaaa ggcaactcaa ctttatctta ttgat 45  
  
 <210> 146  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 146  
 atgaagaaat gcgtcaagta tcactttctg gctacaccta agcaa 45

<210> 147  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 147  
 gtcaagtctg aagttttgag aaaagtcgat ttgcatgtag tttca 45  
  
 <210> 148  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 148  
 ggtgtcaagt ctgaagtttt gagaaaagtc gatttgcag tagtt 45  
  
 <210> 149  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 149  
 cagcgaaact ttgtagacac tgttggtaca gctgtaggat ggggt 45  
  
 <210> 150  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 150  
 atgcagcgaa actttgtaga cactgttggt acagctgtag gatgg 45  
  
 <210> 151  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 151  
 ataactccgc aacatgtatt aacggctgct cattgcgttg cgagg 45  
  
 <210> 152  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 152  
 gctgtaggat ggggtcttac gaatttttat ggtgtcaagt ctgaa 45  
  
 <210> 153  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 153  
 tattacatgc agcgaaactt tgtagacact gttgttacag ctgta 45

<210> 154  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 154  
 tatcactttc tggctacacc taagcaactt tgtacattcg atatg 45  
  
 <210> 155  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 155  
 atacatcttg caacgcgttt tctctattgc ggtgcaacta taata 45  
  
 <210> 156  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 156  
 gtaggatggg gtcttacgaa tttttatggt gtcaagtctg aagtt 45  
  
 <210> 157  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 157  
 actagttatt tagattttat tacaagatca acacctggag aaata 45  
  
 <210> 158  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 158  
 attttatata ttctaggagt tgttggttga gaacataata catgg 45  
  
 <210> 159  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 159  
 aagtatcact ttctggctac acctaagcaa ctttgtacat tcgat 45  
  
 <210> 160  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 160  
 gtcactagtt atttagatatt tattacaaga tcaacacctg gagaa 45

<210> 161  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 161  
 ataataactc cgcaacatgt attaacggct gctcattgcg ttgcg 45  
  
 <210> 162  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 162  
 cttccgttct attacatgca gcgaaacttt gtagacactg ttgtt 45  
  
 <210> 163  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 163  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctgtt 45  
  
 <210> 164  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 164  
 gttgaaacag gagtgaatga atatcctatg atggctggta taata 45  
  
 <210> 165  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 165  
 atcgatctca attgtggcta cacccaaaaa ttaaaatcag atgtt 45  
  
 <210> 166  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 166  
 cattgcgttg cgaggataa aaggatttta tatattctag gagtt 45  
  
 <210> 167  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 167  
 actccgcaac atgtattaac ggctgctcat tgcgttgcca ggtat 45

<210> 168  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 168  
 tgcgttgcga ggtataaaag gattttatat attctaggag ttgtt 45  
  
 <210> 169  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 169  
 ccgcaacatg tattaacggc tgctcattgc gttgcgaggt ataaa 45  
  
 <210> 170  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 170  
 ttatatattc taggagttgt tgttggagaa cataatacat gggca 45  
  
 <210> 171  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 171  
 tctgaagttt tgagaaaagt cgatttgcac gtagtttcaa tgaag 45  
  
 <210> 172  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 172  
 ccgttctatt acatgcagcg aaactttgta gacactgttg ttaca 45  
  
 <210> 173  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 173  
 ttctattaca tgcagcgaaa ctttgtagac actgttgta cagct 45  
  
 <210> 174  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 174  
 tgcacagttt tcgatgttcc tccgagttcg aattgttcat tggat 45

<210> 175  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 175  
 aattgcacag ttttcgatgt tcctccgagt tcgaattggt cattg 45

<210> 176  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 176  
 aagtctgaag ttttgagaaa agtcgatttg catgtagttt caatg 45

<210> 177  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 177  
 aacttgagag tcactagtta tttagatttt attacaagat caaca 45

<210> 178  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 178  
 ttgagagtca ctagttatatt agattttatt acaagatcaa cacct 45

<210> 179  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 179  
 gaagttttga gaaaagtcga tttgcatgta gtttcaatga agaaa 45

<210> 180  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 180  
 actatcgatc tcaattgtgg ctacacccaa aaattaaaat cagat 45

<210> 181  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 181  
 agagtcacta gttatttaga ttttattaca agatcaacac ctgga 45

<210> 182  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 182  
 gctcattgcg ttgcgaggta taaaaggatt ttatatattc tagga 45

<210> 183  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 183  
 tgtagatgtg gttggaagaa tccgtcgaga atcgtaggcg gtggt 45

<210> 184  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 184  
 aaatgtagat gtggttgga gaatccgtcg agaatcgtag gcggt 45

<210> 185  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 185  
 ttaaacgatt tagctgttat aaaattgcag aagagggttaa aatat 45

<210> 186  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 186  
 ggcggtgttg aaacaggagt gaatgaatat cctatgatgg ctggt 45

<210> 187  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 187  
 aaattaaacg atttagctgt tataaaattg cagaagaggt taaaa 45

<210> 188  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 188  
 gcttgctctc cgttctatta catgcagcga aactttgtag acact 45



<210> 189  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 189  
 gagaaatgta gatgtggttg gaagaatccg tcgagaatcg taggc 45

<210> 190  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 190  
 ggtgttgaaa caggagtga tgaatatacct atgatggctg gtata 45

<210> 191  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 191  
 tgtggctaca ccaaaaatt aaaatcagat gttaattatt gcgtg 45

<210> 192  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 192  
 agatgtggtt ggaagaatcc gtcgagaatc gtaggcggtg ttgaa 45

<210> 193  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 193  
 gcttgccagt tcgacagtgg tggccaatt ttatggcaaa atcca 45

<210> 194  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 194  
 ttgaattgca cagttttcga tgttcctccg agttcgaatt gttca 45

<210> 195  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 195  
 gaacataatt gtcggtggag tgctaggagc aatactcgaa ttaaa 45

<210> 196  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 196  
 tgccagttcg acagtgggtgg tccaatttta tggcaaaatc caaaa 45  
  
 <210> 197  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 197  
 caacatgtat taacggctgc tcattgcgtt gcgaggtata aaagg 45  
  
 <210> 198  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 198  
 cataattgtc ggtggagtgc taggagcaat actcgaatta aattg 45  
  
 <210> 199  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 199  
 ggagaacata attgtcgggtg gagtgctagg agcaataactc gaatt 45  
  
 <210> 200  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 200  
 gatgcttgcc agttcgacag tgggtggcca attttatggc aaaat 45  
  
 <210> 201  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 201  
 aattgtcgggt ggagtgctag gagcaatact cgaattaaat tgaat 45  
  
 <210> 202  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 202  
 gccgatgaag ctcttggtgt taacttgaga gtcactagtt attta 45

<210> 203  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 203  
 acagttttcg atgttcctcc gagttcgaat tggttcattgg atttt 45  
  
 <210> 204  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 204  
 aatccgtcga gaatcgtagg cgggtgttgaa acaggagtga atgaa 45  
  
 <210> 205  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 205  
 aagaatccgt cgagaatcgt aggcggtggt gaaacaggag tgaat 45  
  
 <210> 206  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 206  
 tgtggattaa attcttttgc agtggaatca atagcatcga aaatg 45  
  
 <210> 207  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 207  
 ataaaattgc agaagagggtt aaaatattct atgagaattg gtcca 45  
  
 <210> 208  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 208  
 aaggatgctt gccagttcga cagtgggtggt ccaattttat ggcaa 45  
  
 <210> 209  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 209  
 gctgttataa aattgcagaa gaggttaaaa tattctatga gaatt 45

<210> 210  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 210  
 agttatttag attttattac aagatcaaca cctggagaaa tatat 45  
  
 <210> 211  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 211  
 gttataaaat tgcagaagag gttaaaatat tctatgagaa ttggt 45  
  
 <210> 212  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 212  
 ggctacaccc aaaaattaaa atcagatggt aattattgcg tgtat 45  
  
 <210> 213  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 213  
 ttcgacagtg gtggtccaat tttatggcaa aatccaaaaa gcaaa 45  
  
 <210> 214  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 214  
 ataatcgtac atccgaatta taggccaaaa ttaaacgatt tagct 45  
  
 <210> 215  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 215  
 gatgaagctc ctggtgttaa cttgagagtc actagttatt tagat 45  
  
 <210> 216  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 216  
 catgtattaa cggctgctca ttgcgttgcg aggtataaaa ggatt 45

<210> 217  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 217  
 ggaaaggatg cttgccagtt cgacagtggg ggtccaattt tatgg 45

<210> 218  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 218  
 tatttagatt ttattacaag atcaacacct ggagaaatat attgt 45

<210> 219  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 219  
 ttgcagaaga ggttaaaata ttctatgaga attggtccag cttgt 45

<210> 220  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 220  
 tttatgaaag tcaaagtcga cgatgacatc gagtacgttt tctgt 45

<210> 221  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 221  
 gattttatga aagtcaaagt cgacgatgac atcgagtacg ttttc 45

<210> 222  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 222  
 atgaaagtca aagtcgacga tgacatcgag tacgttttct gtgga 45

<210> 223  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 223  
 atgaagaaat gcgtcaagta tcactttctg gctacaccta agcaa 45

<210> 224  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 224  
 gtcaagtatc actttctggc tacacctaag caactttgta cattc 45

<210> 225  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 225  
 aaatgcgtca agtatcactt tctggctaca cctaagcaac tttgt 45

<210> 226  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 226  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45

<210> 227  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 227  
 aagaaatgcg tcaagtatca ctttctggct acacctaagc aactt 45

<210> 228  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 228  
 gatgttaatt attgcgtgta taatcctgat tttccgaatt attac 45

<210> 229  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 229  
 gttaattatt gcgtgtataa tcctgatttt ccgaattatt acatg 45

<210> 230  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 230  
 aattattgcg tgtataatcc tgattttccg aattattaca tggga 45

<210> 231  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 231  
 tattgcgtgt ataatcctga ttttccgaat tattacatgg gagaa 45  
  
 <210> 232  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 232  
 tgcgtgtata atcctgattt tccgaattat tacatgggag aacat 45  
  
 <210> 233  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 233  
 aagtatcact ttctggctac acctaagcaa ctttgtacat tcgat 45  
  
 <210> 234  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 234  
 tatcactttc tggctacacc taagcaactt tgtacattcg atatg 45  
  
 <210> 235  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 235  
 ttgaattgca cagttttcga tgttcctccg agttcgaatt gttca 45  
  
 <210> 236  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 236  
 gtcactagtt atttagattt tattacaaga tcaacacctg gagaa 45  
  
 <210> 237  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 237  
 actagttatt tagattttat tacaagatca acacctggag aaata 45

<210> 238  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 238  
 agagtcacta gttattttaga ttttattaca agatcaacac ctgga 45  
  
 <210> 239  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 239  
 aaatgctga agtatcactt tctggctaca cctaagcaac tttgt 45  
  
 <210> 240  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 240  
 ttgagagtca ctagttattt agattttatt acaagatcaa cacct 45  
  
 <210> 241  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 241  
 agcaaacgta ttttccttct tggagtcac aattatggaa gaaca 45  
  
 <210> 242  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 242  
 aaacgtattt tccttcttgg agtcatcaat tatggaagaa catgt 45  
  
 <210> 243  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 243  
 aacttgagag tcactagtta tttagatttt attacaagat caaca 45  
  
 <210> 244  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 244  
 cgtattttcc ttcttggagt catcaattat ggaagaacat gtgcc 45



<210> 245  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 245  
 cctgattttc cgaattatta catgggagaa cataattgtc ggtgg 45

<210> 246  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 246  
 tttccgaatt attacatggg agaacataat tgtcgggtgga gtgct 45

<210> 247  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 247  
 gattttccga attattacat gggagaacat aattgtcggg ggagt 45

<210> 248  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 248  
 agtggtggtc caattttatg gcaaaatcca aaaagcaaac gtatt 45

<210> 249  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 249  
 ttatatattc taggagttgt tgttggagaa cataatacat gggca 45

<210> 250  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 250  
 ccagcttggtc ttccgttcta ttacatgcag cgaaactttg tagac 45

<210> 251  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 251  
 gcttgcttctc cgttctatta catgcagcga aactttgtag acact 45

<210> 252  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 252  
 ccgttctatt acatgcagcg aaactttgta gacactgttg ttaca 45  
  
 <210> 253  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 253  
 tgttttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45  
  
 <210> 254  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 254  
 cttccgttct attaccatgca gcgaaacttt gtagacactg ttggt 45  
  
 <210> 255  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 255  
 tattacatgc agcgaaactt tgtagacact gttgttacag ctgta 45  
  
 <210> 256  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 256  
 ttctattaca tgcagcgaaa cttttagtagac actgttggtta cagct 45  
  
 <210> 257  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 257  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45  
  
 <210> 258  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 258  
 gatgacatcg agtacgtttt ctgtggatta aattcttttg cagtg 45

<210> 259  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 259  
 gacatcgagt acgttttctg tggattaaat tcttttgcag tggaa 45  
  
 <210> 260  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 260  
 atcgagtacg ttttctgtgg attaaattct tttgcagtgg aatca 45  
  
 <210> 261  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 261  
 tacgttttct gtggattaaa ttcttttgca gtggaatcaa tagca 45  
  
 <210> 262  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 262  
 tattacatgc agcgaaactt tgtagacact gttgttacag ctgta 45  
  
 <210> 263  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 263  
 gctggtataa tacatcttgc aacgcgtttt ctctattgcg gtgca 45  
  
 <210> 264  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 264  
 atgatggctg gtataatata tcttgcaacg cgttttctct attgc 45  
  
 <210> 265  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 265  
 atgcagcgaa actttgtaga cactgttggt acagctgtag gatgg 45

<210> 266  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 266  
 cagcgaaact ttgtagacac tggtgttaca gctgtaggat ggggt 45  
  
 <210> 267  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 267  
 cctatgatgg ctggtataat acatcttgca acgcgttttc tctat 45  
  
 <210> 268  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 268  
 tacatgcagc gaaactttgt agacactggt gttacagctg tagga 45  
  
 <210> 269  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 269  
 tgggggtctta cgaattttta tggtgtcaag tctgaagttt tgaga 45  
  
 <210> 270  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 270  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45  
  
 <210> 271  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 271  
 ggatggggtc ttacgaattt ttatggtgtc aagtctgaag ttttg 45  
  
 <210> 272  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 272  
 acgaattttt atggtgtcaa gtctgaagtt ttgagaaaag tcgat 45

<210> 273  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 273  
 gttttctgtg gattaaattc ttttgcagtg gaatcaatag catcg 45  
  
 <210> 274  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 274  
 ttctgtggat taaattcttt tgcagtggaa tcaatagcat cgaaa 45  
  
 <210> 275  
 <211> 30  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 275  
 cctggagaaa tatattgtca ggcgtattaa 30  
  
 <210> 276  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 276  
 aattgtcggg ggagtgcctag gagcaatact cgaattaaat tgaat 45  
  
 <210> 277  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 277  
 gctcctggtg ttaacttgag agtcactagt tathtagatt ttatt 45  
  
 <210> 278  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 278  
 ggagaacata attgtcgggt gagtgctagg agcaatactc gaatt 45  
  
 <210> 279  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 279  
 gaagctcctg gtgttaactt gagagtcact agttatttag atttt 45

<210> 280  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 280  
 cataattgtc ggtggagtgc taggagcaat actcgaatta aattg 45  
  
 <210> 281  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 281  
 gaacataatt gtcggtggag tgctaggagc aatactcgaa ttaaa 45  
  
 <210> 282  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 282  
 tgtcgggtgga gtgctaggag caatactcga attaaattga attgc 45  
  
 <210> 283  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 283  
 catgtattaa cggctgctca ttgcgttgcg aggtataaaa ggatt 45  
  
 <210> 284  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 284  
 acggctgctc attgcgttgc gaggtataaa aggattttat atatt 45  
  
 <210> 285  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 285  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45  
  
 <210> 286  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 286  
 gctgctcatt gcgttgcgag gtataaaagg attttatata ttcta 45

<210> 287  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 287  
 ggtataatac atcttgcaac gcgttttctc tattgcggtg caact 45

<210> 288  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 288  
 attttatggc aaaatccaaa aagcaaactg attttccttc ttgga 45

<210> 289  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 289  
 cttccgttct attacatgca gcgaaacttt gtagacactg ttgtt 45

<210> 290  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 290  
 ggtccaattht tatggcaaaa tccaaaaagc aaacgtattht tcctt 45

<210> 291  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 291  
 ttagctgtta taaaattgca gaagaggtha aaatattcta tgaga 45

<210> 292  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 292  
 gatthagctg ttataaaatt gcagaagagg ttaaaatatt ctatg 45

<210> 293  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 293  
 gctgttataa aattgcagaa gaggttaaaa tattctatga gaatt 45

<210> 294  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 294  
 tttaaagcatt tagctgttat aaaattgcag aagagggttaa aatat 45  
  
 <210> 295  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 295  
 aacgatttag ctgttataaa attgcagaag aggttaaaat attct 45  
  
 <210> 296  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 296  
 gttataaaat tgcagaagag gttaaaatat tctatgagaa ttggt 45  
  
 <210> 297  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 297  
 gtcaagtatc actttctggc tacacctaag caactttgta cattc 45  
  
 <210> 298  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 298  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45  
  
 <210> 299  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 299  
 aaatgcgtca agtatcactt tctggctaca cctaagcaac tttgt 45  
  
 <210> 300  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 300  
 aagaaatgcg tcaagtatca ctttctggct acacctaagc aactt 45



<210> 301  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 301  
 atgaagaaat gcgtcaagta tcactttctg gctacaccta agcaa 45  
  
 <210> 302  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 302  
 actagttatt tagattttat tacaagatca acacctggag aaata 45  
  
 <210> 303  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 303  
 agttatttag attttattac aagatcaaca cctggagaaa tatat 45  
  
 <210> 304  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 304  
 tatttagatt ttattacaag atcaaacact ggagaaatat attgt 45  
  
 <210> 305  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 305  
 ttagatttta ttacaagatc aacacctgga gaaatatatt gtcag 45  
  
 <210> 306  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 306  
 gattttatta caagatcaac acctggagaa atatattgtc aggcg 45  
  
 <210> 307  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 307  
 aatgaatatc ctatgatggc tggataata catcttgcaa cgcgt 45

<210> 308  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 308  
 gtgaatgaat atcctatgat ggctggtata atacatcttg caacg 45  
  
 <210> 309  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 309  
 acaggagtga atgaatatcc tatgatggct ggtataatac atctt 45  
  
 <210> 310  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 310  
 gaaacaggag tgaatgaata tcctatgatg gctggtataa tacat 45  
  
 <210> 311  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 311  
 ggagtgaatg aatatacctat gatggctggt ataatacatc ttgca 45  
  
 <210> 312  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 312  
 gagaaatgta gatgtggttg gaagaatccg tcgagaatcg taggc 45  
  
 <210> 313  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 313  
 ttagctgtta taaaattgca gaagaggta aaatattcta tgaga 45  
  
 <210> 314  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 314  
 tatactatga tggctggtat aatacatctt gcaacgcgtt ttctc 45

<210> 315  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 315  
 gatttagctg ttataaaatt gcagaagagg ttaaaatatt ctatg 45  
  
 <210> 316  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 316  
 aaatgtagat gtggttgga gaatccgtcg agaatcgtag gcggt 45  
  
 <210> 317  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 317  
 tgtagatgtg gttggaagaa tccgtcgaga atcgtaggcg gtggt 45  
  
 <210> 318  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 318  
 aacgatttag ctgttataaa attgcagaag aggttaaaat attct 45  
  
 <210> 319  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 319  
 ttaaacgatt tagctgttat aaaattgcag aagagggttaa aatat 45  
  
 <210> 320  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 320  
 agatgtggtt ggaagaatcc gtcgagaatc gtaggcggtg ttgaa 45  
  
 <210> 321  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 321  
 tgtggttga agaatccgtc gagaatcgta ggcggtgtg aaaca 45

<210> 322  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 322  
 gctggttataa aattgcagaa gaggttaaaa tattctatga gaatt 45  
  
 <210> 323  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 323  
 cctatgatgg ctggtataat acatcttgca acgcgttttc totat 45  
  
 <210> 324  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 324  
 atgatggctg gtataatata tcttgcaacg cgttttctct attgc 45  
  
 <210> 325  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 325  
 gaatatacta tgatggctgg tataatacat cttgcaacgc gtttt 45  
  
 <210> 326  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 326  
 gctggtataa tacatcttgc aacgcgtttt ctctattgcg gtgca 45  
  
 <210> 327  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 327  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45  
  
 <210> 328  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 328  
 cgtattttcc ttcttgaggt catcaattat ggaagaacat gtgcc 45

<210> 329  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 329  
 attttccttc ttggagtcac caattatgga agaacaatgtg ccgat 45  
  
 <210> 330  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 330  
 ttaaaccgatt tagctgttat aaaattgcag aagagggttaa aatat 45  
  
 <210> 331  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 331  
 ttagctgtta taaaattgca gaagagggtta aaatattcta tgaga 45  
  
 <210> 332  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 332  
 gcgagggtata aaaggatttt atatattcta ggagttgttg ttgga 45  
  
 <210> 333  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 333  
 gatttagctg ttataaaatt gcagaagagg ttaaaatatt ctatg 45  
  
 <210> 334  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 334  
 tgtgggttga agaatccgtc gagaatcgta ggcggtgttg aaaca 45  
  
 <210> 335  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 335  
 aggtataaaa ggattttata tattctagga gttgttgttg gagaa 45

<210> 336  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 336  
 aacgatttag ctgttataaa attgcagaag aggttaaaat attct 45  
  
 <210> 337  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 337  
 tgtagatgtg gttggaagaa tccgtcgaga atcgtaggcg gtggt 45  
  
 <210> 338  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 338  
 aaaaggattt tatatatattct aggagttggt gttggagaac ataat 45  
  
 <210> 339  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 339  
 gagaaatgta gatgtgggtg gaagaatccg tcgagaatcg taggc 45  
  
 <210> 340  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 340  
 aaatgtagat gtggttgga gaatccgtcg agaatcgtag gcggt 45  
  
 <210> 341  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 341  
 tataaaagga ttttatatat tctaggagtt gttgttgag aacat 45  
  
 <210> 342  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 342  
 gctgttataa aattgcagaa gaggttaaaa tattctatga gaatt 45

<210> 343  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 343  
 aggattttat atattctagg agttgttggt ggagaacata ataca 45  
  
 <210> 344  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 344  
 aaacgtattt tccttcttgg agtcatcaat tatggaagaa catgt 45  
  
 <210> 345  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 345  
 agcaaacgta ttttccttct tggagtcac aattatggaa gaaca 45  
  
 <210> 346  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 346  
 agatgtggtt ggaagaatcc gtcgagaatc gtaggcggtg ttgaa 45  
  
 <210> 347  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 347  
 ttccttcttg gagtcatcaa ttatggaaga acatgtgccg atgaa 45  
  
 <210> 348  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 348  
 ataaaattgc agaagaggtt aaaatattct atgagaattg gtcca 45  
  
 <210> 349  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 349  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 350  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 350  
 atagcatcga aaatgactat aaaattccat tcaagataca atact 45  
  
 <210> 351  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 351  
 gccgatgaag ctctggtgt taacttgaga gtcactagtt attta 45  
  
 <210> 352  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 352  
 gatgaagctc ctggtgttaa cttgagagtc actagttatt tagat 45  
  
 <210> 353  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 353  
 gaagctcctg gtgttaactt gagagtcact agttatttag atttt 45  
  
 <210> 354  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 354  
 gctggtataa tacatcttgc aacgcgtttt ctctattgcg gtgca 45  
  
 <210> 355  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 355  
 gttataaaat tgcagaagag gttaaaatat tctatgagaa ttggt 45  
  
 <210> 356  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 356  
 acagctgtag gatggggtct tacgaatttt tatggtgtca agtct 45



<210> 357  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 357  
 tggaagaatc cgtcgagaat cgtaggcggt gttgaaacag gagtg 45

<210> 358  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 358  
 tgggggtctta cgaattttta tgggtgtcaag tctgaagttt tgaga 45

<210> 359  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 359  
 gctcctggtg ttaacttgag agtcactagt tatttagatt ttatt 45

<210> 360  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 360  
 atgatggctg gtataatata tcttgcaacg cgttttctct attgc 45

<210> 361  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 361  
 cctatgatgg ctggtataat acatcttgca acgcgttttc tctat 45

<210> 362  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 362  
 gggttggaaga atccgtcgag aatcgtaggc ggtgttgaaa cagga 45

<210> 363  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 363  
 cttcttgag tcataatta tggaagaaca tgtgccgatg aagct 45

<210> 364  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 364  
 cataatacat gggcaattaa cgatacaaag gcaactcaac tttat 45  
  
 <210> 365  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 365  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45  
  
 <210> 366  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 366  
 cctggtgtta acttgagagt cactagttat ttagatttta ttaca 45  
  
 <210> 367  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 367  
 cttggagtca tcaattatgg aagaacatgt gccgatgaag ctcct 45  
  
 <210> 368  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 368  
 aatacatggg caattaacga taaaaggca actcaacttt atctt 45  
  
 <210> 369  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 369  
 gaacataata catgggcaat taacgatata aaggcaactc aactt 45  
  
 <210> 370  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 370  
 attttatata ttctaggagt tgttggttga gaacataata catgg 45

<210> 371  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 371  
 ggtataatac atcttgcaac gcgttttctc tattgcggtg caact 45  
  
 <210> 372  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 372  
 gtaggatggg gtcttacgaa tttttatggt gtcaagtctg aagtt 45  
  
 <210> 373  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 373  
 gctgtaggat ggggtcttac gaatttttat ggtgtcaagt ctgaa 45  
  
 <210> 374  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 374  
 gttggagaac ataatacatg ggcaattaac gatacaaagg caact 45  
  
 <210> 375  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 375  
 aaaagcaaac gtattttcct tcttgagtc atcaattatg gaaga 45  
  
 <210> 376  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 376  
 cattgcgttg cgaggataa aaggatttta tatattctag gagtt 45  
  
 <210> 377  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 377  
 gcatcgaaaa tgactataaa attccattca agatacaata cttat 45

<210> 378  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 378  
 gctcattgcg ttgcgaggta taaaaggatt ttatatattc tagga 45  
  
 <210> 379  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 379  
 ccaaaaagca aacgtatattt ccttccttgga gtcatacaatt atgga 45  
  
 <210> 380  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 380  
 tcgaaaatga ctataaaatt ccattcaaga tacaatactt atgga 45  
  
 <210> 381  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 381  
 gctaggagca atactcgaat taaattgaat tgcacagttt tcgat 45  
  
 <210> 382  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 382  
 ggagaacata atacatgggc aattaacgat acaaaggcaa ctcaa 45  
  
 <210> 383  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 383  
 aggagcaata ctccaattaa attgaattgc acagttttcg atgtt 45  
  
 <210> 384  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 384  
 gttgcgaggt ataaaaggat tttatatatt ctaggagttg ttgtt 45

<210> 385  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 385  
 ttatatattc taggagttgt tgttggagaa cataatacat gggca 45  
  
 <210> 386  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 386  
 aaaatgacta taaaattcca ttcaagatac aatacttatg gaggc 45  
  
 <210> 387  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 387  
 atgactataa aattccattc aagatacaat acttatggag gcaaa 45  
  
 <210> 388  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 388  
 gttgttacag ctgtaggatg gggctttacg aatTTTTatg gtgtc 45  
  
 <210> 389  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 389  
 agcaatactc gaattaaatt gaattgcaca gttttcgatg ttcct 45  
  
 <210> 390  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 390  
 aatactcgaa ttaaattgaa ttgcacagtt ttcgatgttc ctccg 45  
  
 <210> 391  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 391  
 acgaattttt atggtgtcaa gtctgaagtt ttgagaaaag tcgat 45

<210> 392  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 392  
 gttacagctg taggatgggg tcttacgaat ttttatggtg tcaag 45

<210> 393  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 393  
 aatttttatg gtgtcaagtc tgaagttttg agaaaagtcg atttg 45

<210> 394  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 394  
 aaattaaacg atttagctgt tataaaattg cagaagaggt taaaa 45

<210> 395  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 395  
 actcgaatta aattgaattg cacagttttc gatgttcctc cgagt 45

<210> 396  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 396  
 gacactgttg ttacagctgt aggatggggg cttacgaatt tttat 45

<210> 397  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 397  
 ggtcttacga atttttatgg tgtcaagtct gaagttttga gaaaa 45

<210> 398  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 398  
 tgcgttcgca ggtataaaaag gattttatat attctaggag ttgtt 45

<210> 399  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 399  
 tatcctatga tggctggtat aatacatctt gcaacgcgtt ttctc 45

<210> 400  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 400  
 ccaaaattaa acgatttagc tggtataaaa ttgcagaaga ggtta 45

<210> 401  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 401  
 aggcctaaaat taaacgattt agctgttata aaattgcaga agagg 45

<210> 402  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 402  
 aatccaaaaa gcaaacgtat tttccttctt ggagtcacatca attat 45

<210> 403  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 403  
 ataaaattcc attcaagata caatacttat ggaggcaaat ttcga 45

<210> 404  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 404  
 ggatggggtc ttacgaattt ttatgggtgtc aagtctgaag ttttg 45

<210> 405  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 405  
 actgttggtta cagctgtagg atgggggtctt acgaattttt atggg 45

<210> 406  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 406  
 ttgcagaaga ggttaaaata ttctatgaga attggtccag cttgt 45

<210> 407  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 407  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45

<210> 408  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 408  
 gatttgcatg tagtttcaat gaagaaatgc gtcaagtatc acttt 45

<210> 409  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 409  
 tgggcaatta acgatacaaa ggcaactcaa ctttatctta ttgat 45

<210> 410  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 410  
 ttgcatgtag tttcaatgaa gaaatgcgtc aagtatcact ttctg 45

<210> 411  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 411  
 ataatacatc ttgcaacgcg ttttctctat tgcggtgcaa ctata 45

<210> 412  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 412  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45



<210> 413  
<211> 45  
<212> DNA  
<213> *Vespula vulgaris*

<400> 413  
gcagtgggaat caatagcatc gaaaatgact ataaaattcc attca 45

<210> 414  
<211> 45  
<212> DNA  
<213> *Vespula vulgaris*

<400> 414  
aaattgcaga agagggttaa atattctatg agaattgggc cagct 45

<210> 415  
<211> 45  
<212> DNA  
<213> *Vespula vulgaris*

<400> 415  
tttgagtgg aatcaatagc atcgaaaatg actataaaat tccat 45

<210> 416  
<211> 45  
<212> DNA  
<213> *Vespula vulgaris*

<400> 416  
agcaaacgta ttttccttct tggagtcac aattatggaa gaaca 45

<210> 417  
<211> 45  
<212> DNA  
<213> *Vespula vulgaris*

<400> 417  
aaaagcaaac gtattttcct tcttgagtc atcaattatg gaaga 45

<210> 418  
<211> 45  
<212> DNA  
<213> *Vespula vulgaris*

<400> 418  
aaacgtattt tccttcttgg agtcatcaat tatggaagaa catgt 45

<210> 419  
<211> 45  
<212> DNA  
<213> *Vespula vulgaris*

<400> 419  
cgtattttcc ttcttggagt catcaattat ggaagaacat gtgcc 45

<210> 420  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 420  
 attttccttc ttggagtcac caattatgga agaacatgtg ccgat 45

<210> 421  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 421  
 gtcaagtctg aagttttgag aaaagtcgat ttgcatgtag tttca 45

<210> 422  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 422  
 ggtgtcaagt ctgaagtttt gagaaaagtc gatttgcatg tagtt 45

<210> 423  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 423  
 tctgaagttt tgagaaaagt cgatttgcat gtagtttcaa tgaag 45

<210> 424  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 424  
 aagtctgaag ttttgagaaa agtcgatttg catgtagttt caatg 45

<210> 425  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 425  
 ttccttcttg gagtcacaa ttatggaaga acatgtgccg atgaa 45

<210> 426  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 426  
 tataatcctg attttccgaa ttattacatg ggagaacata attgt 45

<210> 427  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 427  
 gaagttttga gaaaagtcga ttgcatgta gtttcaatga agaaa 45  
  
 <210> 428  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 428  
 aacgatttag ctgttataaa attgcagaag aggttaaaat attct 45  
  
 <210> 429  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 429  
 cttcttgag tcatcaatta tggaagaaca tgtgccgatg aagct 45  
  
 <210> 430  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 430  
 ttaaacgatt tagctgttat aaaattgcag aagagggttaa aatat 45  
  
 <210> 431  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 431  
 aaattaaacg atttagctgt tataaaattg cagaagaggt taaaa 45  
  
 <210> 432  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 432  
 gcgaggtata aaaggatttt atatattcta ggagttggtg ttgga 45  
  
 <210> 433  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 433  
 tataaaagga ttttatatat tctaggagtt gttggtggag aacat 45

<210> 434  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 434  
 gttttgagaa aagtcgattt gcatgtagtt tcaatgaaga aatgc 45  
  
 <210> 435  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 435  
 aaaaggattt tatatattct aggagttggt gttggagaac ataat 45  
  
 <210> 436  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 436  
 ccaaaattaa acgatttagc tggtataaaa ttgcagaaga ggtta 45  
  
 <210> 437  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 437  
 gatttagctg ttataaaatt gcagaagagg ttaaaatatt ctatg 45  
  
 <210> 438  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 438  
 aggtataaaa ggattttata tattctagga gttgttggtg gagaa 45  
  
 <210> 439  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 439  
 tggggtctta cgaattttta tggtgtcaag tctgaagttt tgaga 45  
  
 <210> 440  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 440  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aatgc 45

<210> 441  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 441  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45

<210> 442  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 442  
 gttgcgaggt ataaaaggat tttatatatt ctaggagttg ttgtt 45

<210> 443  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 443  
 agaaaagtcg atttgcattg agtttcaatg aagaaatgcg tcaag 45

<210> 444  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 444  
 gtcgatttgc atgtagtttc aatgaagaaa tgcgtcaagt atcac 45

<210> 445  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 445  
 aaagtcgatt tgcatttagt ttcaatgaag aaatgcgtca agtat 45

<210> 446  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 446  
 gctgttataa aattgcagaa gaggttaaaa tattctatga gaatt 45

<210> 447  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 447  
 tatggtgtca agtctgaagt ttgagaaaa gtcgatttgc atgta 45

<210> 448  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 448  
 aggatatttat atattctagg agttgttggt ggagaacata ataca 45  
  
 <210> 449  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 449  
 gagaaatgta gatgtggttg gaagaatccg tcgagaatcg taggc 45  
  
 <210> 450  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 450  
 ggatgggggtc ttacgaattt ttatggtgtc aagtctgaag ttttg 45  
  
 <210> 451  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 451  
 cattgcgttg cgaggtataa aaggatttta tatattctag gagtt 45  
  
 <210> 452  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 452  
 gttataaaat tgcagaagag gttaaaatat tctatgagaa ttggt 45  
  
 <210> 453  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 453  
 tgcgttgcca ggtataaaaag gattttatat attctaggag ttggt 45  
  
 <210> 454  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 454  
 gatttgcatt tagtttcaat gaagaaatgc gtcaagtatc acttt 45

<210> 455  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 455  
 ttgcatgtag tttcaatgaa gaaatgcgtc aagtatcact ttctg 45

<210> 456  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 456  
 acgaattttt atggtgtcaa gtctgaagtt ttgagaaaag tcgat 45

<210> 457  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 457  
 aaatgtagat gtggttgga gaatccgtcg agaatcgtag gcggt 45

<210> 458  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 458  
 ggtcttacga atttttatgg tgtcaagtct gaagttttga gaaaa 45

<210> 459  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 459  
 gacagtgggtg gtccaatttt atggcaaaat ccaaaaagca aacgt 45

<210> 460  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 460  
 agtggtggtc caattttatg gcaaaatcca aaaagcaaac gtatt 45

<210> 461  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 461  
 ggtgtccaa ttttatggca aaatccaaaa agcaaacgta ttttc 45

<210> 462  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 462  
 ggtccaattt tatggcaaaa tccaaaaagc aaacgtattt tcctt 45

<210> 463  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 463  
 ttcgacagtg gtggtccaat tttatggcaa aatccaaaaa gcaaa 45

<210> 464  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 464  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45

<210> 465  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 465  
 ttagctgtta taaaattgca gaagagggtta aaatattcta tgaga 45

<210> 466  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 466  
 gatttagctg ttataaaatt gcagaagagg ttaaaatatt ctatg 45

<210> 467  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 467  
 ttaaacgatt tagctgttat aaaattgcag aagagggttaa aatat 45

<210> 468  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 468  
 aacgatttag ctgttataaa attgcagaag aggttaaaat attct 45



<210> 469  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 469  
 attttatggc aaaatccaaa aagcaaacgt attttccttc ttgga 45

<210> 470  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 470  
 gattttccga attattacat gggagaacat aattgtcggg ggagt 45

<210> 471  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 471  
 tttccgaatt attacatggg agaacataat tgtcgggtgga gtgct 45

<210> 472  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 472  
 aatcctgatt ttccgaatta ttacatggga gaacataatt gtcgg 45

<210> 473  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 473  
 ggtggtccaa ttttatggca aaatccaaaa agcaaacgta ttttc 45

<210> 474  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 474  
 agtggtggtc caattttatg gcaaaatcca aaaagcaaac gtatt 45

<210> 475  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 475  
 ggtccaattt tatggcaaaa tccaaaaagc aaacgtattt tcctt 45

<210> 476  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 476  
 ataatcgtac atccgaatta taggcacaaa ttaaacgatt tagct 45  
  
 <210> 477  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 477  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45  
  
 <210> 478  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 478  
 attttatggc aaaatccaaa aagcaaactt attttccttc ttgga 45  
  
 <210> 479  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 479  
 atcgtacatc cgaattatag gccaaaatta aacgatttag ctggt 45  
  
 <210> 480  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 480  
 gatgatataa tcgtacatcc gaattatagg ccaaaattaa acgat 45  
  
 <210> 481  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 481  
 attgatgata taatcgtaca tccgaattat aggccaaaat taaac 45  
  
 <210> 482  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 482  
 cttattgatg atataatcgt acatccgaat tataggccaa aatta 45

<210> 483  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 483  
 gacagtgggtg gtccaatttt atggcaaaat ccaaaaagca aacgt 45

<210> 484  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 484  
 gtacatccga attataggcc aaaattaaac gatttagctg ttata 45

<210> 485  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 485  
 gatataatcg tacatccgaa ttataggcca aaattaaacg attta 45

<210> 486  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 486  
 Ser Gly Gly Pro Ile Leu Trp Gln Asn Pro Lys Ser Lys Arg Ile  
 1 5 10 15

<210> 487  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 487  
 Gly Gly Pro Ile Leu Trp Gln Asn Pro Lys Ser Lys Arg Ile Phe  
 1 5 10 15

<210> 488  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 488  
 Gly Pro Ile Leu Trp Gln Asn Pro Lys Ser Lys Arg Ile Phe Leu  
 1 5 10 15

<210> 489  
 <211> 15  
 <212> PRT

<213> *Vespula vulgaris*

<400> 489

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

<210> 490

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 490

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

<210> 491

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 491

Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr	Arg	Phe	Leu
1				5					10					15

<210> 492

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 492

Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe
1				5					10					15

<210> 493

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 493

Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe	His
1				5					10					15

<210> 494

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 494

Asn	Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys
1				5						10				15

<210> 495  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 495

Pro Met Met Ala Gly Ile Ile His Leu Ala Thr Arg Phe Leu Tyr  
 1 5 10 15

<210> 496  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 496

Leu Asn Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile  
 1 5 10 15

<210> 497  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 497

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

<210> 498  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 498

Gly Leu Asn Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr  
 1 5 10 15

<210> 499  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 499

Ala Gly Ile Ile His Leu Ala Thr Arg Phe Leu Tyr Cys Gly Ala  
 1 5 10 15

<210> 500  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 500

Met Met Ala Gly Ile Ile His Leu Ala Thr Arg Phe Leu Tyr Cys

1                      5                      10                      15

<210> 501  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 501

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

<210> 502  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 502

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

<210> 503  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 503

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

<210> 504  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 504

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

<210> 505  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 505

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

<210> 506  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 506

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

<210> 507

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 507

Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr	Arg
1				5				10						15

<210> 508

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 508

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

<210> 509

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 509

Gly	Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala
1				5					10					15

<210> 510

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 510

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

<210> 511

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 511

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

<210> 512

<211> 15

<212> PRT  
 <213> *Vespula vulgaris*

<400> 512

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

<210> 513  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 513

Lys	Arg	Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro
1				5					10					15

<210> 514  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 514

Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr	Arg	Phe
1				5					10					15

<210> 515  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 515

Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe	Tyr
1				5					10					15

<210> 516  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 516

Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe	Tyr	Tyr
1				5					10					15

<210> 517  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 517

Arg	Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe
1				5					10					15



<210> 518  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 518

Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly
1			5						10					15

<210> 519  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 519

Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe	His	Ser
1				5					10					15

<210> 520  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 520

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

<210> 521  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 521

Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe	His	Ser	Arg
1				5					10					15

<210> 522  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 522

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

<210> 523  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 523

Leu Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro  
 1 5 10 15

<210> 524  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 524

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

<210> 525  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 525

Gly Ile Ile His Leu Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr  
 1 5 10 15

<210> 526  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 526

Trp Gly Leu Thr Asn Phe Tyr Gly Val Lys Ser Glu Val Leu Arg  
 1 5 10 15

<210> 527  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 527

Phe Tyr Gly Val Lys Ser Glu Val Leu Arg Lys Val Asp Leu His  
 1 5 10 15

<210> 528  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 528

Ile Ile His Leu Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile  
 1 5 10 15

<210> 529  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 529

Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val	Leu
1				5					10					15

<210> 530

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 530

Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu
1				5					10					15

<210> 531

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 531

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10					15

<210> 532

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 532

Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln	His	Val
1				5					10					15

<210> 533

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 533

Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His	Asn
1				5					10					15

<210> 534

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 534

Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln	His
1				5					10					15

<210> 535

<211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 535

Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln
1				5					10					15

<210> 536  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 536

Glu	Thr	Gly	Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His
1				5					10					15

<210> 537  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 537

Thr	Gly	Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu
1				5					10					15

<210> 538  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 538

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

<210> 539  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 539

Val	Phe	Cys	Gly	Leu	Asn	Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser
1				5					10					15

<210> 540  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 540

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

<210> 541  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 541

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

<210> 542  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 542

Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly	Leu	Thr
1				5					10					15

<210> 543  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 543

His	Asn	Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr
1				5					10					15

<210> 544  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 544

Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His	Asn	Thr
1				5					10					15

<210> 545  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 545

Asn	Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu
1				5					10					15

<210> 546  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 546

Tyr Cys Gly Ala Thr Ile Ile Thr Pro Gln His Val Leu Thr Ala  
 1 5 10 15

<210> 547  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 547

Glu His Asn Thr Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln Leu  
 1 5 10 15

<210> 548  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 548

Phe Val Asp Thr Val Val Thr Ala Val Gly Trp Gly Leu Thr Asn  
 1 5 10 15

<210> 549  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 549

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

<210> 550  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 550

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

<210> 551  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 551

Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro Gln His Val Leu  
 1 5 10 15

<210> 552  
 <211> 15  
 <212> PRT

<213> *Vespula vulgaris*

<400> 552

Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly	Leu
1				5					10					15

<210> 553

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 553

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

<210> 554

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 554

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10					15

<210> 555

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 555

Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr	Phe
1				5					10					15

<210> 556

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 556

His	Leu	Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr
1				5					10					15

<210> 557

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 557

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

<210> 558  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 558

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

<210> 559  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 559

Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe
1				5				10						15

<210> 560  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 560

Ala	Thr	Ile	Ile	Thr	Pro	Gln	His	Val	Leu	Thr	Ala	Ala	His	Cys
1				5					10					15

<210> 561  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 561

Tyr	Gly	Val	Lys	Ser	Glu	Val	Leu	Arg	Lys	Val	Asp	Leu	His	Val
1				5					10					15

<210> 562  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 562

Thr	Ile	Ile	Thr	Pro	Gln	His	Val	Leu	Thr	Ala	Ala	His	Cys	Val
1				5					10					15

<210> 563  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 563

Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro Gln His Val Leu Thr



1 5 10 15

<210> 564  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 564

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

<210> 565  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 565

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

<210> 566  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 566

Lys Cys Val Lys Tyr His Phe Leu Ala Thr Pro Lys Gln Leu Cys  
 1 5 10 15

<210> 567  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 567

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

<210> 568  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 568

Ser Met Arg Ile Gly Pro Ala Cys Leu Pro Phe Tyr Tyr Met Gln  
 1 5 10 15

<210> 569  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 569

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

<210> 570

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 570

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

<210> 571

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 571

Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe	Tyr	Tyr	Met	Gln	Arg
1				5					10					15

<210> 572

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 572

Lys	Lys	Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu
1				5					10					15

<210> 573

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 573

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

<210> 574

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 574

Val	Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val
1				5					10					15

<210> 575

<211> 15

<212> PRT  
 <213> *Vespula vulgaris*

<400> 575

Gly	Glu	His	Asn	Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln
1				5					10					15

<210> 576  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 576

Tyr	Met	Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly
1				5					10					15

<210> 577  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 577

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10					15

<210> 578  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 578

Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile	Asp
1			5						10					15

<210> 579  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 579

Met	Lys	Lys	Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln
1				5					10					15

<210> 580  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 580

Val	Lys	Ser	Glu	Val	Leu	Arg	Lys	Val	Asp	Leu	His	Val	Val	Ser
1				5					10					15

<210> 581  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 581

Gly	Val	Lys	Ser	Glu	Val	Leu	Arg	Lys	Val	Asp	Leu	His	Val	Val
1				5					10					15

<210> 582  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 582

Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly
1				5					10					15

<210> 583  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 583

Met	Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp
1				5					10					15

<210> 584  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 584

Ile	Thr	Pro	Gln	His	Val	Leu	Thr	Ala	Ala	His	Cys	Val	Ala	Arg
1				5					10					15

<210> 585  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 585

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

<210> 586  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 586

Tyr Tyr Met Gln Arg Asn Phe Val Asp Thr Val Val Thr Ala Val  
 1 5 10 15

<210> 587  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 587

Tyr His Phe Leu Ala Thr Pro Lys Gln Leu Cys Thr Phe Asp Met  
 1 5 10 15

<210> 588  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 588

Ile His Leu Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile  
 1 5 10 15

<210> 589  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 589

Val Gly Trp Gly Leu Thr Asn Phe Tyr Gly Val Lys Ser Glu Val  
 1 5 10 15

<210> 590  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 590

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

<210> 591  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 591

Ile Leu Tyr Ile Leu Gly Val Val Val Gly Glu His Asn Thr Trp  
 1 5 10 15

<210> 592  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

&lt;400&gt; 592

Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr	Phe	Asp
1				5					10					15

&lt;210&gt; 593

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 593

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

&lt;210&gt; 594

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 594

Ile	Ile	Thr	Pro	Gln	His	Val	Leu	Thr	Ala	Ala	His	Cys	Val	Ala
1				5					10					15

&lt;210&gt; 595

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 595

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

&lt;210&gt; 596

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 596

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

&lt;210&gt; 597

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 597

Val	Glu	Thr	Gly	Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile
1				5					10					15

&lt;210&gt; 598

<211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 598

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

<210> 599  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 599

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

<210> 600  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 600

Thr	Pro	Gln	His	Val	Leu	Thr	Ala	Ala	His	Cys	Val	Ala	Arg	Tyr
1				5					10					15

<210> 601  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 601

Cys	Val	Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val
1				5					10					15

<210> 602  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 602

Pro	Gln	His	Val	Leu	Thr	Ala	Ala	His	Cys	Val	Ala	Arg	Tyr	Lys
1				5					10					15

<210> 603  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 603

Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His	Asn	Thr	Trp	Ala
1				5					10					15

<210> 604  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 604

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

<210> 605  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 605

Pro	Phe	Tyr	Tyr	Met	Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr
1				5					10					15

<210> 606  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 606

Phe	Tyr	Tyr	Met	Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala
1				5					10					15

<210> 607  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 607

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

<210> 608  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 608

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

<210> 609  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 609



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

<210> 610  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 610

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

<210> 611  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 611

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

<210> 612  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 612

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

<210> 613  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 613

Thr Ile Asp Leu Asn Cys Gly Tyr Thr Gln Lys Leu Lys Ser Asp  
 1 5 10 15

<210> 614  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 614

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

<210> 615  
 <211> 15  
 <212> PRT

<213> *Vespula vulgaris*

<400> 615

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

<210> 616

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 616

Cys	Arg	Cys	Gly	Trp	Lys	Asn	Pro	Ser	Arg	Ile	Val	Gly	Gly	Val
1				5					10					15

<210> 617

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 617

Lys	Cys	Arg	Cys	Gly	Trp	Lys	Asn	Pro	Ser	Arg	Ile	Val	Gly	Gly
1				5					10					15

<210> 618

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 618

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

<210> 619

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 619

Gly	Gly	Val	Glu	Thr	Gly	Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly
1				5					10					15

<210> 620

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 620

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

<210> 621  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 621

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

<210> 622  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 622

Glu	Lys	Cys	Arg	Cys	Gly	Trp	Lys	Asn	Pro	Ser	Arg	Ile	Val	Gly
1				5					10					15

<210> 623  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 623

Gly	Val	Glu	Thr	Gly	Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile
1				5					10					15

<210> 624  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 624

Cys	Gly	Tyr	Thr	Gln	Lys	Leu	Lys	Ser	Asp	Val	Asn	Tyr	Cys	Val
1				5					10					15

<210> 625  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 625

Arg	Cys	Gly	Trp	Lys	Asn	Pro	Ser	Arg	Ile	Val	Gly	Gly	Val	Glu
1				5					10					15

<210> 626  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 626

Ala	Cys	Gln	Phe	Asp	Ser	Gly	Gly	Pro	Ile	Leu	Trp	Gln	Asn	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1                      5                      10                      15

<210> 627  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 627

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

<210> 628  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 628

Glu His Asn Cys Arg Trp Ser Ala Arg Ser Asn Thr Arg Ile Lys  
 1                      5                      10                      15

<210> 629  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 629

Cys Gln Phe Asp Ser Gly Gly Pro Ile Leu Trp Gln Asn Pro Lys  
 1                      5                      10                      15

<210> 630  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 630

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

<210> 631  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 631

His Asn Cys Arg Trp Ser Ala Arg Ser Asn Thr Arg Ile Lys Leu  
 1                      5                      10                      15

<210> 632  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

&lt;400&gt; 632

Gly	Glu	His	Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile
1				5					10					15

&lt;210&gt; 633

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 633

Asp	Ala	Cys	Gln	Phe	Asp	Ser	Gly	Gly	Pro	Ile	Leu	Trp	Gln	Asn
1				5					10					15

&lt;210&gt; 634

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 634

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

&lt;210&gt; 635

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 635

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

&lt;210&gt; 636

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 636

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

&lt;210&gt; 637

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 637

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

&lt;210&gt; 638

&lt;211&gt; 15

<212> PRT  
 <213> *Vespula vulgaris*

<400> 638

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

<210> 639  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 639

Cys	Gly	Leu	Asn	Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met
1				5					10					15

<210> 640  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 640

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

<210> 641  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 641

Lys	Asp	Ala	Cys	Gln	Phe	Asp	Ser	Gly	Gly	Pro	Ile	Leu	Trp	Gln
1				5					10					15

<210> 642  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 642

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

<210> 643  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 643

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

<210> 644  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 644

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

<210> 645  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 645

Gly	Tyr	Thr	Gln	Lys	Leu	Lys	Ser	Asp	Val	Asn	Tyr	Cys	Val	Tyr
1				5					10					15

<210> 646  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 646

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

<210> 647  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 647

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

<210> 648  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 648

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

<210> 649  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 649

His	Val	Leu	Thr	Ala	Ala	His	Cys	Val	Ala	Arg	Tyr	Lys	Arg	Ile
1				5					10					15

<210> 650  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 650

Gly	Lys	Asp	Ala	Cys	Gln	Phe	Asp	Ser	Gly	Gly	Pro	Ile	Leu	Trp
1				5					10					15

<210> 651  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 651

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

<210> 652  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 652

Leu	Gln	Lys	Arg	Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys
1				5					10					15

<210> 653  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 653

Phe	Met	Lys	Val	Lys	Val	Asp	Asp	Asp	Ile	Glu	Tyr	Val	Phe	Cys
1				5					10					15

<210> 654  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 654

Asp	Phe	Met	Lys	Val	Lys	Val	Asp	Asp	Asp	Ile	Glu	Tyr	Val	Phe
1				5					10					15

<210> 655  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*



&lt;400&gt; 655

Met	Lys	Val	Lys	Val	Asp	Asp	Asp	Ile	Glu	Tyr	Val	Phe	Cys	Gly
1				5					10					15

&lt;210&gt; 656

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 656

Met	Lys	Lys	Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln
1				5					10					15

&lt;210&gt; 657

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 657

Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr	Phe
1				5					10					15

&lt;210&gt; 658

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 658

Lys	Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys
1				5					10					15

&lt;210&gt; 659

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 659

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10					15

&lt;210&gt; 660

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 660

Lys	Lys	Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu
1				5					10					15

&lt;210&gt; 661

<211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 661

Asp	Val	Asn	Tyr	Cys	Val	Tyr	Asn	Pro	Asp	Phe	Pro	Asn	Tyr	Tyr
1				5					10					15

<210> 662  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 662

Val	Asn	Tyr	Cys	Val	Tyr	Asn	Pro	Asp	Phe	Pro	Asn	Tyr	Tyr	Met
1				5					10					15

<210> 663  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 663

Asn	Tyr	Cys	Val	Tyr	Asn	Pro	Asp	Phe	Pro	Asn	Tyr	Tyr	Met	Gly
1				5					10					15

<210> 664  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 664

Tyr	Cys	Val	Tyr	Asn	Pro	Asp	Phe	Pro	Asn	Tyr	Tyr	Met	Gly	Glu
1				5					10					15

<210> 665  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 665

Cys	Val	Tyr	Asn	Pro	Asp	Phe	Pro	Asn	Tyr	Tyr	Met	Gly	Glu	His
1				5					10					15

<210> 666  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 666

Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr	Phe	Asp
1				5					10					15

<210> 667  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 667

Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr	Phe	Asp	Met
1			5					10					15	

<210> 668  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 668

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

<210> 669  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 669

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

<210> 670  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 670

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

<210> 671  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 671

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

<210> 672  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 672

Lys Cys Val Lys Tyr His Phe Leu Ala Thr Pro Lys Gln Leu Cys  
 1 5 10 15

<210> 673  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 673

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

<210> 674  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 674

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

<210> 675  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 675

Lys Arg Ile Phe Leu Leu Gly Val Ile Asn Tyr Gly Arg Thr Cys  
 1 5 10 15

<210> 676  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 676

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

<210> 677  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 677

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

<210> 678  
 <211> 15  
 <212> PRT

<213> *Vespula vulgaris*

<400> 678

Pro	Asp	Phe	Pro	Asn	Tyr	Tyr	Met	Gly	Glu	His	Asn	Cys	Arg	Trp
1				5					10					15

<210> 679

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 679

Phe	Pro	Asn	Tyr	Tyr	Met	Gly	Glu	His	Asn	Cys	Arg	Trp	Ser	Ala
1				5					10					15

<210> 680

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 680

Asp	Phe	Pro	Asn	Tyr	Tyr	Met	Gly	Glu	His	Asn	Cys	Arg	Trp	Ser
1				5					10					15

<210> 681

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 681

Ser	Gly	Gly	Pro	Ile	Leu	Trp	Gln	Asn	Pro	Lys	Ser	Lys	Arg	Ile
1				5					10					15

<210> 682

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 682

Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His	Asn	Thr	Trp	Ala
1				5					10					15

<210> 683

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 683

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

<210> 684  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 684

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

<210> 685  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 685

Pro Phe Tyr Tyr Met Gln Arg Asn Phe Val Asp Thr Val Val Thr  
 1 5 10 15

<210> 686  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 686

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

<210> 687  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 687

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

<210> 688  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 688

Tyr Tyr Met Gln Arg Asn Phe Val Asp Thr Val Val Thr Ala Val  
 1 5 10 15

<210> 689  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 689

Phe Tyr Tyr Met Gln Arg Asn Phe Val Asp Thr Val Val Thr Ala

1                      5                      10                      15

<210> 690  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 690

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

<210> 691  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 691

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

<210> 692  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 692

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

<210> 693  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 693

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

<210> 694  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 694

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

<210> 695  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

&lt;400&gt; 695

Tyr	Tyr	Met	Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val
1				5					10					15

&lt;210&gt; 696

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 696

Ala	Gly	Ile	Ile	His	Leu	Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala
1				5					10					15

&lt;210&gt; 697

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 697

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

&lt;210&gt; 698

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 698

Met	Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp
1				5					10					15

&lt;210&gt; 699

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 699

Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly
1				5					10					15

&lt;210&gt; 700

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 700

Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr	Arg	Phe	Leu	Tyr
1				5					10					15

&lt;210&gt; 701

&lt;211&gt; 15



<212> PRT  
 <213> *Vespula vulgaris*

<400> 701

Tyr	Met	Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly
1				5					10					15

<210> 702  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 702

Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val	Leu	Arg
1				5					10					15

<210> 703  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 703

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

<210> 704  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 704

Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val	Leu
1				5					10					15

<210> 705  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 705

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

<210> 706  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 706

Val	Phe	Cys	Gly	Leu	Asn	Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser
1				5					10					15

<210> 707  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 707

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

<210> 708  
 <211> 9  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 708

Pro	Gly	Glu	Ile	Tyr	Cys	Gln	Ala	Tyr
1				5				

<210> 709  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 709

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

<210> 710  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 710

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

<210> 711  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 711

Gly	Glu	His	Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile
1				5					10					15

<210> 712  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 712

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

<210> 713  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 713

His Asn Cys Arg Trp Ser Ala Arg Ser Asn Thr Arg Ile Lys Leu  
 1 5 10 15

<210> 714  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 714

Glu His Asn Cys Arg Trp Ser Ala Arg Ser Asn Thr Arg Ile Lys  
 1 5 10 15

<210> 715  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 715

Cys Arg Trp Ser Ala Arg Ser Asn Thr Arg Ile Lys Leu Asn Cys  
 1 5 10 15

<210> 716  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 716

His Val Leu Thr Ala Ala His Cys Val Ala Arg Tyr Lys Arg Ile  
 1 5 10 15

<210> 717  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 717

Thr Ala Ala His Cys Val Ala Arg Tyr Lys Arg Ile Leu Tyr Ile  
 1 5 10 15

<210> 718  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 718

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

<210> 719

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 719

Ala	Ala	His	Cys	Val	Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu
1				5					10					15

<210> 720

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 720

Gly	Ile	Ile	His	Leu	Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr
1				5					10					15

<210> 721

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 721

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

<210> 722

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 722

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

<210> 723

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 723

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

<210> 724

<211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 724

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

<210> 725  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 725

Asp	Leu	Ala	Val	Ile	Lys	Leu	Gln	Lys	Arg	Leu	Lys	Tyr	Ser	Met
1				5					10					15

<210> 726  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 726

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

<210> 727  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 727

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

<210> 728  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 728

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

<210> 729  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 729

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

<210> 730  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 730

Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr	Phe
1				5					10					15

<210> 731  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 731

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10					15

<210> 732  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 732

Lys	Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys
1				5					10					15

<210> 733  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 733

Lys	Lys	Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu
1				5					10					15

<210> 734  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 734

Met	Lys	Lys	Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln
1				5					10					15

<210> 735  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 735

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

<210> 736  
<211> 15  
<212> PRT  
<213> *Vespula vulgaris*

<400> 736

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

<210> 737  
<211> 15  
<212> PRT  
<213> *Vespula vulgaris*

<400> 737

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

<210> 738  
<211> 15  
<212> PRT  
<213> *Vespula vulgaris*

<400> 738

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

<210> 739  
<211> 15  
<212> PRT  
<213> *Vespula vulgaris*

<400> 739

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

<210> 740  
<211> 15  
<212> PRT  
<213> *Vespula vulgaris*

<400> 740

Asn Glu Tyr Pro Met Met Ala Gly Ile Ile His Leu Ala Thr Arg  
1 5 10 15

<210> 741  
<211> 15  
<212> PRT

<213> *Vespula vulgaris*

<400> 741

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

<210> 742

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 742

Thr	Gly	Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu
1				5					10					15

<210> 743

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 743

Glu	Thr	Gly	Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His
1				5						10				15

<210> 744

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 744

Gly	Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala
1				5					10					15

<210> 745

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 745

Glu	Lys	Cys	Arg	Cys	Gly	Trp	Lys	Asn	Pro	Ser	Arg	Ile	Val	Gly
1				5					10					15

<210> 746

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 746

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



<210> 747  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 747

Tyr Pro Met Met Ala Gly Ile Ile His Leu Ala Thr Arg Phe Leu  
 1 5 10 15

<210> 748  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 748

Asp Leu Ala Val Ile Lys Leu Gln Lys Arg Leu Lys Tyr Ser Met  
 1 5 10 15

<210> 749  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 749

Lys Cys Arg Cys Gly Trp Lys Asn Pro Ser Arg Ile Val Gly Gly  
 1 5 10 15

<210> 750  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 750

Cys Arg Cys Gly Trp Lys Asn Pro Ser Arg Ile Val Gly Gly Val  
 1 5 10 15

<210> 751  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 751

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

<210> 752  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 752

Leu Asn Asp Leu Ala Val Ile Lys Leu Gln Lys Arg Leu Lys Tyr

1                      5                      10                      15

<210> 753  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 753

Arg Cys Gly Trp Lys Asn Pro Ser Arg Ile Val Gly Gly Val Glu  
 1                      5                      10                      15

<210> 754  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 754

Cys Gly Trp Lys Asn Pro Ser Arg Ile Val Gly Gly Val Glu Thr  
 1                      5                      10                      15

<210> 755  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 755

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

<210> 756  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 756

Pro Met Met Ala Gly Ile Ile His Leu Ala Thr Arg Phe Leu Tyr  
 1                      5                      10                      15

<210> 757  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 757

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

<210> 758  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

&lt;400&gt; 758

Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr	Arg	Phe
1				5					10					15

&lt;210&gt; 759

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 759

Ala	Gly	Ile	Ile	His	Leu	Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala
1				5					10					15

&lt;210&gt; 760

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 760

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

&lt;210&gt; 761

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 761

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

&lt;210&gt; 762

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 762

Ile	Phe	Leu	Leu	Gly	Val	Ile	Asn	Tyr	Gly	Arg	Thr	Cys	Ala	Asp
1				5					10					15

&lt;210&gt; 763

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 763

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

&lt;210&gt; 764

&lt;211&gt; 15

<212> PRT  
 <213> *Vespula vulgaris*

<400> 764

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

<210> 765  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 765

Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly
1				5					10					15

<210> 766  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 766

Asp	Leu	Ala	Val	Ile	Lys	Leu	Gln	Lys	Arg	Leu	Lys	Tyr	Ser	Met
1				5					10					15

<210> 767  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 767

Cys	Gly	Trp	Lys	Asn	Pro	Ser	Arg	Ile	Val	Gly	Gly	Val	Glu	Thr
1				5					10					15

<210> 768  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 768

Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu
1				5					10					15

<210> 769  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 769

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

<210> 770  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 770

Cys	Arg	Cys	Gly	Trp	Lys	Asn	Pro	Ser	Arg	Ile	Val	Gly	Gly	Val
1				5					10					15

<210> 771  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 771

Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His	Asn
1				5				10						15

<210> 772  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 772

Glu	Lys	Cys	Arg	Cys	Gly	Trp	Lys	Asn	Pro	Ser	Arg	Ile	Val	Gly
1				5				10						15

<210> 773  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 773

Lys	Cys	Arg	Cys	Gly	Trp	Lys	Asn	Pro	Ser	Arg	Ile	Val	Gly	Gly
1				5				10						15

<210> 774  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 774

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5				10						15

<210> 775  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 775

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

<210> 776  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 776

Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly Glu His Asn Thr  
 1 5 10 15

<210> 777  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 777

Lys Arg Ile Phe Leu Leu Gly Val Ile Asn Tyr Gly Arg Thr Cys  
 1 5 10 15

<210> 778  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 778

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

<210> 779  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 779

Arg Cys Gly Trp Lys Asn Pro Ser Arg Ile Val Gly Gly Val Glu  
 1 5 10 15

<210> 780  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 780

Phe Leu Leu Gly Val Ile Asn Tyr Gly Arg Thr Cys Ala Asp Glu  
 1 5 10 15

<210> 781  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 781

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

<210> 782

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 782

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

<210> 783

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 783

Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe	His	Ser	Arg	Tyr	Asn	Thr
1				5					10					15

<210> 784

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 784

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

<210> 785

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 785

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

<210> 786

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 786

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

<210> 787

<211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 787

Ala	Gly	Ile	Ile	His	Leu	Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala
1				5					10					15

<210> 788  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 788

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

<210> 789  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 789

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

<210> 790  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 790

Trp	Lys	Asn	Pro	Ser	Arg	Ile	Val	Gly	Gly	Val	Glu	Thr	Gly	Val
1				5					10					15

<210> 791  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 791

Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val	Leu	Arg
1				5					10					15

<210> 792  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 792

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



<210> 793  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 793

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

<210> 794  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 794

Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr	Arg	Phe	Leu	Tyr
1				5					10					15

<210> 795  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 795

Gly	Trp	Lys	Asn	Pro	Ser	Arg	Ile	Val	Gly	Gly	Val	Glu	Thr	Gly
1				5					10					15

<210> 796  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 796

Leu	Leu	Gly	Val	Ile	Asn	Tyr	Gly	Arg	Thr	Cys	Ala	Asp	Glu	Ala
1				5					10					15

<210> 797  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 797

His	Asn	Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr
1				5					10					15

<210> 798  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 798

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

<210> 799  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 799

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

<210> 800  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 800

Leu Gly Val Ile Asn Tyr Gly Arg Thr Cys Ala Asp Glu Ala Pro  
 1 5 10 15

<210> 801  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 801

Asn Thr Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln Leu Tyr Leu  
 1 5 10 15

<210> 802  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 802

Glu His Asn Thr Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln Leu  
 1 5 10 15

<210> 803  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 803

Ile Leu Tyr Ile Leu Gly Val Val Val Gly Glu His Asn Thr Trp  
 1 5 10 15

<210> 804  
 <211> 15  
 <212> PRT

<213> *Vespula vulgaris*

<400> 804

Gly	Ile	Ile	His	Leu	Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr
1				5					10					15

<210> 805

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 805

Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val
1				5					10					15

<210> 806

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 806

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

<210> 807

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 807

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

<210> 808

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 808

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

<210> 809

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 809

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

<210> 810  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 810

Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe	His	Ser	Arg	Tyr	Asn	Thr	Tyr
1				5					10					15

<210> 811  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 811

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

<210> 812  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 812

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

<210> 813  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 813

Ser	Lys	Met	Thr	Ile	Lys	Phe	His	Ser	Arg	Tyr	Asn	Thr	Tyr	Gly
1				5					10					15

<210> 814  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 814

Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn	Cys	Thr	Val	Phe	Asp
1				5					10					15

<210> 815  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 815

Gly	Glu	His	Asn	Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

# 141

1 5 10 15

<210> 816  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 816

Arg Ser Asn Thr Arg Ile Lys Leu Asn Cys Thr Val Phe Asp Val  
 1 5 10 15

<210> 817  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 817

Val Ala Arg Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val  
 1 5 10 15

<210> 818  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 818

Leu Tyr Ile Leu Gly Val Val Val Gly Glu His Asn Thr Trp Ala  
 1 5 10 15

<210> 819  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 819

Lys Met Thr Ile Lys Phe His Ser Arg Tyr Asn Thr Tyr Gly Gly  
 1 5 10 15

<210> 820  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 820

Met Thr Ile Lys Phe His Ser Arg Tyr Asn Thr Tyr Gly Gly Lys  
 1 5 10 15

<210> 821  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

&lt;400&gt; 821

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

&lt;210&gt; 822

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 822

Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn	Cys	Thr	Val	Phe	Asp	Val	Pro
1				5					10					15

&lt;210&gt; 823

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 823

Asn	Thr	Arg	Ile	Lys	Leu	Asn	Cys	Thr	Val	Phe	Asp	Val	Pro	Pro
1				5					10					15

&lt;210&gt; 824

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 824

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

&lt;210&gt; 825

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 825

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

&lt;210&gt; 826

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 826

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

&lt;210&gt; 827

&lt;211&gt; 15

<212> PRT  
 <213> *Vespula vulgaris*

<400> 827

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

<210> 828  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 828

Thr	Arg	Ile	Lys	Leu	Asn	Cys	Thr	Val	Phe	Asp	Val	Pro	Pro	Ser
1				5					10					15

<210> 829  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 829

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

<210> 830  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 830

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

<210> 831  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 831

Cys	Val	Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val
1				5					10					15

<210> 832  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 832

Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr	Arg	Phe	Leu
1				5					10					15

<210> 833  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 833

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

<210> 834  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 834

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

<210> 835  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 835

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

<210> 836  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 836

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

<210> 837  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 837

Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val	Leu
1			5					10					15	

<210> 838  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 838



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

<210> 839  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 839

Leu Gln Lys Arg Leu Lys Tyr Ser Met Arg Ile Gly Pro Ala Cys  
 1 5 10 15

<210> 840  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 840

Thr Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln Leu Tyr Leu Ile  
 1 5 10 15

<210> 841  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 841

Asp Leu His Val Val Ser Met Lys Lys Cys Val Lys Tyr His Phe  
 1 5 10 15

<210> 842  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 842

Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln Leu Tyr Leu Ile Asp  
 1 5 10 15

<210> 843  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 843

Leu His Val Val Ser Met Lys Lys Cys Val Lys Tyr His Phe Leu  
 1 5 10 15

<210> 844  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 844

Ile	Ile	His	Leu	Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile
1				5					10					15

<210> 845

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 845

Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe
1				5					10					15

<210> 846

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 846

Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe	His	Ser
1				5					10					15

<210> 847

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 847

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

<210> 848

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 848

Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe	His
1				5					10					15

<210> 849

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 849

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

<210> 850

<211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 850

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

<210> 851  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 851

Lys	Arg	Ile	Phe	Leu	Leu	Gly	Val	Ile	Asn	Tyr	Gly	Arg	Thr	Cys
1				5					10					15

<210> 852  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 852

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

<210> 853  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 853

Ile	Phe	Leu	Leu	Gly	Val	Ile	Asn	Tyr	Gly	Arg	Thr	Cys	Ala	Asp
1				5					10					15

<210> 854  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 854

Val	Lys	Ser	Glu	Val	Leu	Arg	Lys	Val	Asp	Leu	His	Val	Val	Ser
1				5					10					15

<210> 855  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 855

Gly	Val	Lys	Ser	Glu	Val	Leu	Arg	Lys	Val	Asp	Leu	His	Val	Val
1				5					10					15

<210> 856  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 856

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

<210> 857  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 857

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

<210> 858  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 858

Phe	Leu	Leu	Gly	Val	Ile	Asn	Tyr	Gly	Arg	Thr	Cys	Ala	Asp	Glu
1				5					10					15

<210> 859  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 859

Tyr	Asn	Pro	Asp	Phe	Pro	Asn	Tyr	Tyr	Met	Gly	Glu	His	Asn	Cys
1				5					10					15

<210> 860  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 860

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

<210> 861  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 861

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

<210> 862  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 862

Leu	Leu	Gly	Val	Ile	Asn	Tyr	Gly	Arg	Thr	Cys	Ala	Asp	Glu	Ala
1				5					10					15

<210> 863  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 863

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

<210> 864  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 864

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

<210> 865  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 865

Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly
1				5						10				15

<210> 866  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 866

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10					15

<210> 867  
 <211> 15  
 <212> PRT

<213> *Vespula vulgaris*

<400> 867

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

<210> 868

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 868

Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His	Asn
1				5					10					15

<210> 869

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 869

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

<210> 870

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 870

Asp	Leu	Ala	Val	Ile	Lys	Leu	Gln	Lys	Arg	Leu	Lys	Tyr	Ser	Met
1				5					10					15

<210> 871

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 871

Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu
1				5					10					15

<210> 872

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 872

Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val	Leu	Arg
1				5					10					15

<210> 873  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 873

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

<210> 874  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 874

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

<210> 875  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 875

Val	Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val
1				5					10					15

<210> 876  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 876

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

<210> 877  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 877

Val	Asp	Leu	His	Val	Val	Ser	Met	Lys	Lys	Cys	Val	Lys	Tyr	His
1				5					10					15

<210> 878  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 878

Lys	Val	Asp	Leu	His	Val	Val	Ser	Met	Lys	Lys	Cys	Val	Lys	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1                      5                      10                      15

<210> 879  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 879

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

<210> 880  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 880

Tyr Gly Val Lys Ser Glu Val Leu Arg Lys Val Asp Leu His Val  
 1                      5                      10                      15

<210> 881  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 881

Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly Glu His Asn Thr  
 1                      5                      10                      15

<210> 882  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 882

Glu Lys Cys Arg Cys Gly Trp Lys Asn Pro Ser Arg Ile Val Gly  
 1                      5                      10                      15

<210> 883  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 883

Gly Trp Gly Leu Thr Asn Phe Tyr Gly Val Lys Ser Glu Val Leu  
 1                      5                      10                      15

<210> 884  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*



<400> 884

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

<210> 885

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 885

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

<210> 886

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 886

Cys	Val	Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val
1				5					10					15

<210> 887

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 887

Asp	Leu	His	Val	Val	Ser	Met	Lys	Lys	Cys	Val	Lys	Tyr	His	Phe
1				5					10					15

<210> 888

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 888

Leu	His	Val	Val	Ser	Met	Lys	Lys	Cys	Val	Lys	Tyr	His	Phe	Leu
1				5					10					15

<210> 889

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 889

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

<210> 890

<211> 15

<212> PRT  
 <213> *Vespula vulgaris*

<400> 890

Lys	Cys	Arg	Cys	Gly	Trp	Lys	Asn	Pro	Ser	Arg	Ile	Val	Gly	Gly
1				5					10					15

<210> 891  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 891

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

<210> 892  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 892

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

<210> 893  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 893

Ser	Gly	Gly	Pro	Ile	Leu	Trp	Gln	Asn	Pro	Lys	Ser	Lys	Arg	Ile
1				5					10					15

<210> 894  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 894

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

<210> 895  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 895

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

<210> 896  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 896

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

<210> 897  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 897

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

<210> 898  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 898

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

<210> 899  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 899

Asp	Leu	Ala	Val	Ile	Lys	Leu	Gln	Lys	Arg	Leu	Lys	Tyr	Ser	Met
1				5					10					15

<210> 900  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 900

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

<210> 901  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 901

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

<210> 902  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 902

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

<210> 903  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 903

Asp	Phe	Pro	Asn	Tyr	Tyr	Met	Gly	Glu	His	Asn	Cys	Arg	Trp	Ser
1				5					10					15

<210> 904  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 904

Phe	Pro	Asn	Tyr	Tyr	Met	Gly	Glu	His	Asn	Cys	Arg	Trp	Ser	Ala
1				5					10					15

<210> 905  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 905

Asn	Pro	Asp	Phe	Pro	Asn	Tyr	Tyr	Met	Gly	Glu	His	Asn	Cys	Arg
1				5					10					15

<210> 906  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 906

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

<210> 907  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 907

Ser	Gly	Gly	Pro	Ile	Leu	Trp	Gln	Asn	Pro	Lys	Ser	Lys	Arg	Ile
1				5					10					15

<210> 908

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 908

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

<210> 909

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 909

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

<210> 910

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 910

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

<210> 911

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 911

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

<210> 912

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 912

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

<210> 913

<211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 913

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

<210> 914  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 914

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

<210> 915  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 915

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

<210> 916  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 916

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

<210> 917  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 917

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

<210> 918  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 918

Asp	Ile	Ile	Val	His	Pro	Asn	Tyr	Arg	Pro	Lys	Leu	Asn	Asp	Leu
1											5			10

<210> 919  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 919  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45

<210> 920  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 920  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45

<210> 921  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 921  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 922  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 922  
 tataaaagga ttttatatat tctaggagtt gttgttggag aacat 45

<210> 923  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 923  
 gcgaggtata aaaggatttt atatattcta ggagttgttg ttgga 45

<210> 924  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 924  
 gcaacgcgtt ttctctattg cggcgcaact ataataactc cgcaa 45

<210> 925  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 925  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 926  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 926  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45

<210> 927  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 927  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45

<210> 928  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 928  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45

<210> 929  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 929  
 gtgaatgaat atcctatgat ggctgggtata atacatcttg caacg 45

<210> 930  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 930  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45

<210> 931  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 931  
 catccgaatt ataggccaaa attaaacgat ttagctgtta taaaa 45

<210> 932  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 932  
 aattgtcggg ggagtgcctag gagcaatact cgaattaaat tgaat 45



<210> 933  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 933  
 ggtgcaacta taataactcc gcaacatgta ttaacggctg ctcac 45

<210> 934  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 934  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45

<210> 935  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 935  
 gtaggatggg gtcttacgaa tttttatggt gtcaagtctg aagtt 45

<210> 936  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 936  
 ttgtagaca ctgttggttac agctgtagga tgggggtctta cgaat 45

<210> 937  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 937  
 cagcgaaaact ttgtagacac tggtgttaca gctgtaggat ggggt 45

<210> 938  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 938  
 tgtggattaa attcttttgc agtggaatca atagcatcga aaatg 45

<210> 939  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 939  
 ttaaaatatt ctatgagaat tgggtccagct tgtcttccgt tctat 45

<210> 940  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 940  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45

<210> 941  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 941  
 tataaaagga ttttatatat tctaggagtt gttgttggag aacat 45

<210> 942  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 942  
 atggctggtg taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 943  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 943  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45

<210> 944  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 944  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45

<210> 945  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 945  
 cgtattttcc ttcttggagt catcaattat ggaagaacat gtgcc 45

<210> 946  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 946  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 947  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 947  
 gcaacgcggtt ttctctattg cgggtgcaact ataataactc cgcaa 45  
  
 <210> 948  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 948  
 tgcggttgcca ggtataaaag gattttatat attctaggag ttggt 45  
  
 <210> 949  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 949  
 gtagacactg ttgttacagc tgtaggatgg ggtcttacga atttt 45  
  
 <210> 950  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 950  
 gtgaatgaat atcctatgat ggctgggtata atacatcttg caacg 45  
  
 <210> 951  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 951  
 gaatatccta tgatggctgg tataatacat cttgcaacgc gtttt 45  
  
 <210> 952  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 952  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45  
  
 <210> 953  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 953  
 ttaaaatatt ctatgagaat tgggtccagct tgtcttccgt tctat 45

<210> 954  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 954  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45

<210> 955  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 955  
 gtaggatggg gtcttacgaa tttttatggg gtcaagtctg aagtt 45

<210> 956  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 956  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 957  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 957  
 tataaaagga ttttatatat tctaggagtt gttgttgag aacat 45

<210> 958  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 958  
 cttacgaatt tttatgggtg caagtctgaa gttttgagaa aagtc 45

<210> 959  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 959  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45

<210> 960  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 960  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45

<210> 961  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 961  
 gcaacgcgtt ttctctattg cggcgcaact ataataactc cgcaa 45

<210> 962  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 962  
 aattgtcggg ggagtgctag gagcaatact cgaattaaat tgaat 45

<210> 963  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 963  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 964  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 964  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45

<210> 965  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 965  
 tataaaagga ttttatatat tctaggagtt gttgttgag aacat 45

<210> 966  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 966  
 gagtacgttt tctgtggatt aaattctttt gcagtggaaat caata 45

<210> 967  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 967  
 cttacgaatt tttatgggtg caagtctgaa gttttgagaa aagtc 45

<210> 968  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 968  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 969  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 969  
 cgtatatttcc ttcttggagt catcaattat ggaagaacat gtgcc 45

<210> 970  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 970  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 971  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 971  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctgtt 45

<210> 972  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 972  
 gcaacgcgtt ttctctattg cggtgcaact ataataactc cgcaa 45

<210> 973  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 973  
 tttgtagaca ctgttggttac agctgtagga tgggggtctta cgaat 45

<210> 974  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 974  
 gagtacgttt tctgtggatt aaattctttt gcagtggaaat caata 45

<210> 975  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 975  
 ottacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45

<210> 976  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 976  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 977  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 977  
 tataaaagga ttttatatat tctaggagtt gttgttggag aacat 45

<210> 978  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 978  
 gcgaggtata aaaggatttt atatattcta ggagttgttg ttgga 45

<210> 979  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 979  
 gcaacgcgtt ttctctattg cggtgcaact ataataactc cgcaa 45

<210> 980  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 980  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 981  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 981  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45

<210> 982  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 982  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45

<210> 983  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 983  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45

<210> 984  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 984  
 gtgaatgaat atcctatgat ggctggtata atacatcttg caacg 45

<210> 985  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 985  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45

<210> 986  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 986  
 catccgaatt ataggccaaa attaaacgat ttagctgtta taaaa 45

<210> 987  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 987  
 aattgtcggg ggagtgctag gagcaatact cgaattaaat tgaat 45

<210> 988  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 988  
 ggtgcaacta taataactcc gcaacatgta ttaacggctg ctcat 45



<210> 989  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 989  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45

<210> 990  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 990  
 gtaggatggg gtcttacgaa tttttatggg gtcaagtctg aagtt 45

<210> 991  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 991  
 tttgtagaca ctgttggttac agctgtagga tgggggtctta cgaat 45

<210> 992  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 992  
 cagcgaaact ttgtagacac tggtgttaca gctgtaggat ggggt 45

<210> 993  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 993  
 tgtggattaa attcttttgc agtggaatca atagcatcga aaatg 45

<210> 994  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 994  
 ttaaaatatt ctatgagaat tgggtccagct tgtcttccgt tctat 45

<210> 995  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 995  
 tataaaaagga ttttatatat tctaggagtt gttgttgag aacat 45

<210> 996  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 996  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45

<210> 997  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 997  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45

<210> 998  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 998  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 999  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 999  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 1000  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1000  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45

<210> 1001  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1001  
 cgtattttcc ttcttggagt catcaattat ggaagaacat gtgcc 45

<210> 1002  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1002  
 gtgaatgaat atcctatgat ggctgggtata atacatcttg caacg 45

<210> 1003  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1003  
 gcaacgcggtt ttctctattg cggtgcaact ataataactc cgcaa 45

<210> 1004  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1004  
 tgcgttgcga ggtataaaag gattttatat attctaggag ttggt 45

<210> 1005  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1005  
 gtagacactg ttgttacagc tgtaggatgg ggtcttacga atttt 45

<210> 1006  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1006  
 gtaggatggg gtcttacgaa tttttatggt gtcaagtctg aagtt 45

<210> 1007  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1007  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45

<210> 1008  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1008  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45

<210> 1009  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1009  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 1010  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1010  
 tataaaaagga ttttatatat tctaggagtt gttgttggag aacat 45  
  
 <210> 1011  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1011  
 gcgaggtata aaaggatttt atatattcta ggagttgttg ttgga 45  
  
 <210> 1012  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1012  
 gcaacgcgtt ttctctattg cggtgcaact ataataactc cgcaa 45  
  
 <210> 1013  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1013  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45  
  
 <210> 1014  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1014  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45  
  
 <210> 1015  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1015  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45  
  
 <210> 1016  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1016  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45

<210> 1017  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1017  
 gtgaatgaat atcctatgat ggctggtata atacatcttg caacg 45

<210> 1018  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1018  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45

<210> 1019  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1019  
 catccgaatt ataggccaaa attaaacgat ttagctgtta taaaa 45

<210> 1020  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1020  
 aattgtcggg ggagtgctag gagcaatact cgaattaaat tgaat 45

<210> 1021  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1021  
 ggtgcaacta taataactcc gcaacatgta ttaacggctg ctcatt 45

<210> 1022  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1022  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45

<210> 1023  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1023  
 gtaggatggg gtcttacgaa tttttatggg gtcaagtctg aagtt 45

<210> 1024  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1024  
 ttgttagaca ctgttggttac agctgtagga tggggctotta cgaat 45

<210> 1025  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1025  
 cagcgaaact ttgttagacac tggttggttaca gctgtaggat ggggt 45

<210> 1026  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1026  
 tgtggattaa attctttttgc agtggaatca atagcatcga aaatg 45

<210> 1027  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1027  
 ttaaaatatt ctatgagaat tgggtccagct tgtcttccgt tctat 45

<210> 1028  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1028  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45

<210> 1029  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1029  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45

<210> 1030  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1030  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 1031  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1031  
 tataaaaagga ttttatatat tctaggaggtt gttggttgag aacat 45

<210> 1032  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1032  
 gcgaggtata aaaggatttt atatattcta ggagttggtt ttgga 45

<210> 1033  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1033  
 gcaacgcgtt ttctctattg cgggtgcaact ataataactc cgcaa 45

<210> 1034  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1034  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 1035  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1035  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45

<210> 1036  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1036  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45

<210> 1037  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1037  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45

<210> 1038  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1038  
 gtgaatgaat atcctatgat ggctggtata atacatcttg caacg 45  
  
 <210> 1039  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1039  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45  
  
 <210> 1040  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1040  
 catccgaatt ataggccaaa attaaacgat ttagctgtta taaaa 45  
  
 <210> 1041  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1041  
 aattgtcggg ggagtgcctag gagcaatact cgaattaaat tgaat 45  
  
 <210> 1042  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1042  
 ggtgcaacta taataactcc gcaacatgta ttaacggctg ctcac 45  
  
 <210> 1043  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1043  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45  
  
 <210> 1044  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1044  
 gtaggatggg gtcttacgaa tttttatggg gtcaagtctg aagtt 45



<210> 1045  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1045  
 tttgtagaca ctgttggttac agctgtagga tgggggtctta cgaat 45  
  
 <210> 1046  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1046  
 cagcgaaact ttgtagacac tgttggttaca gctgtaggat ggggt 45  
  
 <210> 1047  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1047  
 tgtggattaa attcttttgc agtggaatca atagcatcga aaatg 45  
  
 <210> 1048  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1048  
 ttaaaatatt ctatgagaat tgggtccagct tgtcttccgt tctat 45  
  
 <210> 1049  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1049  
 gagtacgttt tctgtggatt aaattctttt gcagtggaaat caata 45  
  
 <210> 1050  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1050  
 cttacgaatt tttatgggtgt caagtctgaa gttttgagaa aagtc 45  
  
 <210> 1051  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1051  
 tataaaagga ttttatatat tctaggagtt gttggttgag aacat 45

<210> 1052  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1052  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 1053  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1053  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45

<210> 1054  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1054  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 1055  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1055  
 gcaacgcggt tttctctattg cggtgcaact ataataactc cgcaa 45

<210> 1056  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1056  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45

<210> 1057  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1057  
 gttgcgaggt ataaaaggat tttatatatt ctaggaggtt ttggt 45

<210> 1058  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1058  
 gtgaatgaat atcctatgat ggctgggtata atacatcttg caacg 45

<210> 1059  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1059  
 aattgtcggg ggagtgcctag gagcaatact cgaattaaat tgaat 45

<210> 1060  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1060  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45

<210> 1061  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1061  
 catccgaatt ataggccaaa attaaacgat ttagctgtta taaaa 45

<210> 1062  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1062  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45

<210> 1063  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1063  
 gtaggatggg gtcttacgaa tttttatggg gtcaagtctg aagtt 45

<210> 1064  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1064  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45

<210> 1065  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1065  
 gactacgttt tctgtggatt aaattctttt gcagtgggaat caata 45

<210> 1066  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1066  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45

<210> 1067  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1067  
 tataaaagga ttttatatat tctaggagtt gttggtggag aacat 45

<210> 1068  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1068  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 1069  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1069  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45

<210> 1070  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1070  
 gcgaggata aaaggatttt atatattcta ggagttgttg ttgga 45

<210> 1071  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1071  
 gcaacgcgtt ttctctattg cgtgcaact ataataactc cgcaa 45

<210> 1072  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1072  
 tcttttcgag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 1073  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1073  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45  
  
 <210> 1074  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1074  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45  
  
 <210> 1075  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1075  
 aattgtcggg ggagtgctag gagcaatact cgaattaaat tgaat 45  
  
 <210> 1076  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1076  
 catccgaatt ataggccaaa attaaacgat ttagctgtta taaaa 45  
  
 <210> 1077  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1077  
 gtgaatgaat atcctatgat ggctggtata atacatcttg caacg 45  
  
 <210> 1078  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1078  
 cagcgaaact ttgtagacac tgttgttaca gctgtaggat ggggt 45  
  
 <210> 1079  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1079  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45

<210> 1080  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1080  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45  
  
 <210> 1081  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1081  
 gtaggatggg gtcttacgaa tttttatggt gtcaagtctg aagtt 45  
  
 <210> 1082  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1082  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45  
  
 <210> 1083  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1083  
 cttacgaatt tttatgggtgt caagtctgaa gttttgagaa aagtc 45  
  
 <210> 1084  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1084  
 atggctggtg taatacatct tgcaacgcgt tttctctatt gcggt 45  
  
 <210> 1085  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1085  
 tataaaagga ttttatatat tctaggagtt gttgttggag aacat 45  
  
 <210> 1086  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1086  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45

<210> 1087  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1087  
 gcaacgcggtt ttctctattg cgggtgcaact ataataactc cgcaa 45  
  
 <210> 1088  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1088  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45  
  
 <210> 1089  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1089  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45  
  
 <210> 1090  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1090  
 gcgaggtata aaaggatattt atatattcta ggagttggtg ttgga 45  
  
 <210> 1091  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1091  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45  
  
 <210> 1092  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1092  
 gtcaagtatc actttctggc tacacctaag caactttgta cattc 45  
  
 <210> 1093  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1093  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45

<210> 1094  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1094  
 cagcgaaact ttgtagacac tgttgttaca gctgtaggat ggggt 45

<210> 1095  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1095  
 aattgtcggg ggagtgctag gagcaatact cgaattaaat tgaat 45

<210> 1096  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1096  
 catccgaatt ataggccaaa attaaacgat ttagctgtta taaaa 45

<210> 1097  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1097  
 gtgaatgaat atcctatgat ggctgggtata atacatcttg caacg 45

<210> 1098  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1098  
 ggtgcaacta taataactcc gcaacatgta ttaacggctg ctcac 45

<210> 1099  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1099  
 gagtacgttt tctgtggatt aaattctttt gcagtggaaat caata 45

<210> 1100  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1100  
 cttacgaatt tttatgggtg caagtctgaa gttttgagaa aagtc 45



<210> 1101  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1101  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 1102  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1102  
 tataaaagga ttttatatat tctaggagtt gttgttggag aacat 45

<210> 1103  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1103  
 gcgaggtata aaaggatttt atatattcta ggagttgttg ttgga 45

<210> 1104  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1104  
 gcaacgcgtt ttctctattg cgggtgcaact ataataactc cgcaa 45

<210> 1105  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1105  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 1106  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1106  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctgtt 45

<210> 1107  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1107  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45

<210> 1108  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1108  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45  
  
 <210> 1109  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1109  
 gtgaatgaat atcctatgat ggctggtata atacatcttg caacg 45  
  
 <210> 1110  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1110  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45  
  
 <210> 1111  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1111  
 catccgaatt ataggccaaa attaaacgat ttagctgtta taaaa 45  
  
 <210> 1112  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1112  
 aattgtcggg ggagtgttag gagcaatact cgaattaaat tgaat 45  
  
 <210> 1113  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1113  
 ggtgcaacta taataactcc gcaacatgta ttaacggctg ctcac 45  
  
 <210> 1114  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1114  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45

<210> 1115  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1115  
 gtaggatggg gtcttacgaa tttttatggt gtcaagtctg aagtt 45  
  
 <210> 1116  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1116  
 tttgtagaca ctgttggttac agctgtagga tggggtctta cgaat 45  
  
 <210> 1117  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1117  
 cagcgaaact ttgtagacac tgttggttaca gctgtaggat ggggt 45  
  
 <210> 1118  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1118  
 tgtggattaa attcttttgc agtggaatca atagcatcga aaatg 45  
  
 <210> 1119  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1119  
 ttaaaatatt ctatgagaat tgggtccagct tgtcttccgt tctat 45  
  
 <210> 1120  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1120  
 gagtacgttt tctgtggatt aaattctttt gcagtgggaat caata 45  
  
 <210> 1121  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1121  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45

<210> 1122  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1122  
 tataaaaagga ttttatatat tctaggagtt gttgttggag aacat 45

<210> 1123  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1123  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 1124  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1124  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45

<210> 1125  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1125  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 1126  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1126  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45

<210> 1127  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1127  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctgtt 45

<210> 1128  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1128  
 cgtattttcc ttcttggagt catcaattat ggaagaacat gtgcc 45

<210> 1129  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1129  
 cttccgttct attacatgca gcgaaacttt gtagacactg ttggt 45  
  
 <210> 1130  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1130  
 gttgcgaggt ataaaaggat tttatatatt ctaggagttg ttggt 45  
  
 <210> 1131  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1131  
 gcaacgcgtt ttctctattg cggtgcaact ataataactc cgcaa 45  
  
 <210> 1132  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1132  
 gtgaatgaat atcctatgat ggctggtata atacatcttg caacg 45  
  
 <210> 1133  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1133  
 cagcgaaact ttgtagacac tgttgttaca gctgtaggat ggggt 45  
  
 <210> 1134  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1134  
 aattgtcggg ggagtgcctag gagcaatact cgaattaaat tgaat 45  
  
 <210> 1135  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1135  
 gtaggatggg gtcttacgaa tttttatggg gtcaagtctg aagtt 45

<210> 1136  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1136  
 catccgaatt ataggccaaa attaaacgat ttagctgtta taaaa 45

<210> 1137  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1137  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45

<210> 1138  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1138  
 actataaaat tccattcaag atacaatact tatggaggca aattt 45

<210> 1139  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1139  
 tttgtagaca ctgttggttac agctgtagga tgggggtctta cgaat 45

<210> 1140  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1140  
 tacaccctaaa aattaaaatc agatgttaat tattgctgtg ataat 45

<210> 1141  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1141  
 ggtgcaacta taataactcc gcaacatgta ttaacggctg ctcac 45

<210> 1142  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1142  
 aggttaaaat attctatgag aattgggtcca gcttgccttc cggtc 45

<210> 1143  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1143  
 tataatcctg attttccgaa ttattacatg ggagaacata attgt 45

<210> 1144  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1144  
 gactacgttt tctgtggatt aaattctttt gcagtggaat caata 45

<210> 1145  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1145  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 1146  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1146  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45

<210> 1147  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1147  
 tataaaagga ttttatatat tctaggagtt gttgttggag aacat 45

<210> 1148  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1148  
 gcaacgcgtt ttctctattg cgtgcaact ataataactc cgcaa 45

<210> 1149  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1149  
 tcttttcgag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 1150  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1150  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45  
  
 <210> 1151  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1151  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45  
  
 <210> 1152  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1152  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45  
  
 <210> 1153  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1153  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45  
  
 <210> 1154  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1154  
 tgtggattaa attcttttgc agtggaatca atagcatcga aaatg 45  
  
 <210> 1155  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1155  
 cagcgaaact ttgtagacac tgttgttaca gctgtaggat ggggt 45  
  
 <210> 1156  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1156  
 tttgtagaca ctgttgttac agctgtagga tgggggtctta cgaat 45



<210> 1157  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1157  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45

<210> 1158  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1158  
 tgcgttgcca ggtataaaag gattttatat attctaggag ttgtt 45

<210> 1159  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1159  
 aattgtcggg ggagtgctag gagcaatact cgaattaaat tgaat 45

<210> 1160  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1160  
 gtgaatgaat atcctatgat ggctgggtata atacatcttg caacg 45

<210> 1161  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1161  
 actccgcaac atgtattaac ggctgctcat tgcgttgcca ggtat 45

<210> 1162  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1162  
 ttaaaatatt ctatgagaat tggccagct tgtcttccgt tctat 45

<210> 1163  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1163  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45

<210> 1164  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1164  
 gagtacgttt tctgtggatt aaattctttt gcagtggaaat caata 45  
  
 <210> 1165  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1165  
 tataaaagga ttttatatat tctaggagtt gttgttggag aacat 45  
  
 <210> 1166  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1166  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45  
  
 <210> 1167  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1167  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45  
  
 <210> 1168  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1168  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45  
  
 <210> 1169  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1169  
 gcaacgcggt ttctctattg cggtgcaact ataataactc cgcaa 45  
  
 <210> 1170  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1170  
 aattgtcggg ggagtgctag gagcaatact cgaattaaat tgaat 45

<210> 1171  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1171  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45  
  
 <210> 1172  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1172  
 tgcgttgcga ggtataaaag gattttatat attctaggag ttggt 45  
  
 <210> 1173  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1173  
 gtgaatgaat atcctatgat ggctggtata atacatcttg caacg 45  
  
 <210> 1174  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1174  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45  
  
 <210> 1175  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1175  
 catccgaatt ataggccaaa attaaacgat ttagctgtta taaaa 45  
  
 <210> 1176  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1176  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45  
  
 <210> 1177  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1177  
 gtaggatggg gtcttacgaa tttttatggg gtcaagtctg aagtt 45

<210> 1178  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1178  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45  
  
 <210> 1179  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1179  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45  
  
 <210> 1180  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1180  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45  
  
 <210> 1181  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1181  
 tacacccaaa aattaaatc agatgttaat tattgcgtgt ataata 45  
  
 <210> 1182  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1182  
 aattgtcggg ggagtgttag gagcaatact cgaattaaat tgaat 45  
  
 <210> 1183  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1183  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45  
  
 <210> 1184  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1184  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45

<210> 1185  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1185  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45  
  
 <210> 1186  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1186  
 tataaaagga ttttatatat tctaggagtt gttgttgag aacat 45  
  
 <210> 1187  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1187  
 ccaattttat ggcaaatcc aaaaagcaaa cgtattttcc ttctt 45  
  
 <210> 1188  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1188  
 gcgaggtata aaaggatttt atatattcta ggagttgttg ttgga 45  
  
 <210> 1189  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1189  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45  
  
 <210> 1190  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1190  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctgtt 45  
  
 <210> 1191  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1191  
 gcaacgcgtt ttctctattg cggtgcaact ataataactc cgcaa 45

<210> 1192  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1192  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45

<210> 1193  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1193  
 aattgtcggg ggagtgctag gagcaatact cgaattaaat tgaat 45

<210> 1194  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1194  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45

<210> 1195  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1195  
 catccgaatt ataggccaaa attaaacgat ttagctgtta taaaa 45

<210> 1196  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1196  
 gtgaatgaat atcctatgat ggctggtata atacatcttg caacg 45

<210> 1197  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1197  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45

<210> 1198  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1198  
 cagcgaaact ttgtagacac tgttgttaca gctgtaggat ggggt 45

<210> 1199  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1199  
 tgtggattaa attcttttgc agtggaatca atagcatcga aaatg 45  
  
 <210> 1200  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1200  
 ggtgcaacta taataactcc gcaacatgta ttaacggctg ctcac 45  
  
 <210> 1201  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1201  
 gtaggatggg gtcttacgaa tttttatggg gtcaagtctg aagtt 45  
  
 <210> 1202  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1202  
 tttgtagaca ctgttggtac agctgtagga tgggggtctta cgaat 45  
  
 <210> 1203  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1203  
 ttaaaatatt ctatgagaat tgggtccagct tgtcttccgt tctat 45  
  
 <210> 1204  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1204  
 actccgcaac atgtattaac ggctgctcat tgcgttgcca ggtat 45  
  
 <210> 1205  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1205  
 aggttaaaat attctatgag aattgggtcca gcttgccttc cggtc 45

<210> 1206  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1206  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45

<210> 1207  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1207  
 cttacgaatt tttatggtgt caagtctgaa gttttgagaa aagtc 45

<210> 1208  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1208  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 1209  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1209  
 tataaaagga ttttatatat tctaggagtt gttgttggag aacat 45

<210> 1210  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1210  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctgtt 45

<210> 1211  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1211  
 gcaacgcgtt ttctctattg cgtgcaact ataataactc cgcaa 45

<210> 1212  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1212  
 gttgcgaggt ataaaaggat tttatatatt ctaggagttg ttgtt 45



<210> 1213  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1213  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45

<210> 1214  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1214  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45

<210> 1215  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1215  
 gtgaatgaat atcctatgat ggctggtata atacatcttg caacg 45

<210> 1216  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1216  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45

<210> 1217  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1217  
 gtaggatggg gtcttacgaa tttttatggt gtcaagtctg aagtt 45

<210> 1218  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1218  
 aggccaaaat taaacgattt agctgttata aaattgcaga agagg 45

<210> 1219  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1219  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45

<210> 1220  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1220  
 ggtgcaacta taataactcc gcaacatgta ttaacggctg ctcat 45

<210> 1221  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1221  
 gagtacgttt tctgtggatt aaattctttt gcagtggaat caata 45

<210> 1222  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1222  
 cttacgaatt tttatgggtgt caagtctgaa gttttgagaa aagtc 45

<210> 1223  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1223  
 atggctggta taatacatct tgcaacgcgt tttctctatt gcggt 45

<210> 1224  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1224  
 tataaaagga ttttatatat tctaggagtt gttgttggag aacat 45

<210> 1225  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1225  
 gcgagggtata aaaggatthtt atatattcta ggagttggtg ttgga 45

<210> 1226  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1226  
 gcaacgcgtt ttctctattg cggtgcaact ataataactc cgcaa 45

<210> 1227  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1227  
 tcttttgcag tggaatcaat agcatcgaaa atgactataa aattc 45  
  
 <210> 1228  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1228  
 tgtcttccgt tctattacat gcagcgaaac tttgtagaca ctggt 45  
  
 <210> 1229  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1229  
 ccaattttat ggcaaaatcc aaaaagcaaa cgtattttcc ttctt 45  
  
 <210> 1230  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1230  
 tgcgtcaagt atcactttct ggctacacct aagcaacttt gtaca 45  
  
 <210> 1231  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1231  
 gtgaatgaat atcctatgat ggctggtata atacatcttg caacg 45  
  
 <210> 1232  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1232  
 acatgggcaa ttaacgatac aaaggcaact caactttatc ttatt 45  
  
 <210> 1233  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1233  
 catccgaatt ataggccaaa attaaacgat ttagctgtta taaaa 45

<210> 1234  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1234  
 aattgtcggg ggagtgctag gagcaatact cgaattaaat tgaat 45  
  
 <210> 1235  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1235  
 ggtgcaacta taataactcc gcaacatgta ttaacggctg ctcac 45  
  
 <210> 1236  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1236  
 aggcacaaat taaacgattt agctgttata aaattgcaga agagg 45  
  
 <210> 1237  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1237  
 gtaggatggg gtcttacgaa tttttatggg gtcaagtctg aagtt 45  
  
 <210> 1238  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1238  
 tttgtagaca ctgttggttac agctgtagga tggggctcta cgaat 45  
  
 <210> 1239  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1239  
 cagcgaaact ttgtagacac tgttggttaca gctgtaggat ggggt 45  
  
 <210> 1240  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*  
  
 <400> 1240  
 tgtggattaa attcttttgc agtggaatca atagcatcga aaatg 45

<210> 1241  
 <211> 45  
 <212> DNA  
 <213> *Vespula vulgaris*

<400> 1241  
 ttaaaatatt ctatgagaat tgggccagct tgtcttccgt tctat

45

<210> 1242  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1242

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

<210> 1243  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1243

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

<210> 1244  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1244

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

<210> 1245  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1245

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10					15

<210> 1246  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1246

Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1                      5                      10                      15

<210> 1247  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1247

Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro Gln  
 1                      5                      10                      15

<210> 1248  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1248

Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe  
 1                      5                      10                      15

<210> 1249  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1249

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

<210> 1250  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1250

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

<210> 1251  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1251

Cys Val Lys Tyr His Phe Leu Ala Thr Pro Lys Gln Leu Cys Thr  
 1                      5                      10                      15

<210> 1252  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

&lt;400&gt; 1252

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

&lt;210&gt; 1253

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1253

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10					15

&lt;210&gt; 1254

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1254

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

&lt;210&gt; 1255

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1255

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

&lt;210&gt; 1256

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1256

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

&lt;210&gt; 1257

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1257

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

&lt;210&gt; 1258

&lt;211&gt; 15

<212> PRT  
 <213> *Vespula vulgaris*

<400> 1258

Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val
1				5					10					15

<210> 1259  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1259

Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly	Leu	Thr	Asn
1				5					10					15

<210> 1260  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1260

Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly
1				5					10					15

<210> 1261  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1261

Cys	Gly	Leu	Asn	Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met
1				5				10						15

<210> 1262  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1262

Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe	Tyr
1				5					10					15

<210> 1263  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1263

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



<210> 1264  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1264

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5				10					15	

<210> 1265  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1265

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

<210> 1266  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1266

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

<210> 1267  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1267

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

<210> 1268  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1268

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

<210> 1269  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1269

Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe  
 1 5 10 15

<210> 1270  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1270

Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro Gln  
 1 5 10 15

<210> 1271  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1271

Cys Val Ala Arg Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val  
 1 5 10 15

<210> 1272  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1272

Val Asp Thr Val Val Thr Ala Val Gly Trp Gly Leu Thr Asn Phe  
 1 5 10 15

<210> 1273  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1273

Val Asn Glu Tyr Pro Met Met Ala Gly Ile Ile His Leu Ala Thr  
 1 5 10 15

<210> 1274  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1274

Glu Tyr Pro Met Met Ala Gly Ile Ile His Leu Ala Thr Arg Phe  
 1 5 10 15

<210> 1275  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1275

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10				15	

<210> 1276

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1276

Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe	Tyr
1				5					10				15	

<210> 1277

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1277

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10				15	

<210> 1278

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1278

Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val
1				5					10				15	

<210> 1279

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1279

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

<210> 1280

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1280

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10				15	

<210> 1281

<211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1281

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

<210> 1282  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1282

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

<210> 1283  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1283

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

<210> 1284  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1284

Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln
1				5					10					15

<210> 1285  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1285

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

<210> 1286  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1286

Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe
1				5					10					15

<210> 1287  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1287

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

<210> 1288  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1288

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10					15

<210> 1289  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1289

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

<210> 1290  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1290

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

<210> 1291  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1291

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

<210> 1292  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1292

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

<210> 1293  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1293

Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe  
 1 5 10 15

<210> 1294  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1294

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

<210> 1295  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1295

Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro Gln  
 1 5 10 15

<210> 1296  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1296

Phe Val Asp Thr Val Val Thr Ala Val Gly Trp Gly Leu Thr Asn  
 1 5 10 15

<210> 1297  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1297

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

<210> 1298  
 <211> 15  
 <212> PRT

<213> *Vespula vulgaris*

<400> 1298

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

<210> 1299

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1299

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

<210> 1300

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1300

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10					15

<210> 1301

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1301

Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly
1				5					10					15

<210> 1302

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1302

Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln
1				5					10					15

<210> 1303

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1303

Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe
1				5					10					15

<210> 1304  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1304

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

<210> 1305  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1305

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

<210> 1306  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1306

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10					15

<210> 1307  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1307

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

<210> 1308  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1308

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10					15

<210> 1309  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1309

His	Pro	Asn	Tyr	Arg	Pro	Lys	Leu	Asn	Asp	Leu	Ala	Val	Ile	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



## 217

1 5 10 15

<210> 1310  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1310

Asn Cys Arg Trp Ser Ala Arg Ser Asn Thr Arg Ile Lys Leu Asn  
 1 5 10 15

<210> 1311  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1311

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

<210> 1312  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1312

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

<210> 1313  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1313

Val Gly Trp Gly Leu Thr Asn Phe Tyr Gly Val Lys Ser Glu Val  
 1 5 10 15

<210> 1314  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1314

Phe Val Asp Thr Val Val Thr Ala Val Gly Trp Gly Leu Thr Asn  
 1 5 10 15

<210> 1315  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1315

Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly
1				5					10					15

<210> 1316

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1316

Cys	Gly	Leu	Asn	Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met
1				5					10					15

<210> 1317

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1317

Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe	Tyr
1				5					10					15

<210> 1318

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1318

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10					15

<210> 1319

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1319

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

<210> 1320

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1320

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

<210> 1321

<211> 15

<212> PRT  
 <213> *Vespula vulgaris*

<400> 1321

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

<210> 1322  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1322

Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe
1				5					10					15

<210> 1323  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1323

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

<210> 1324  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1324

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

<210> 1325  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1325

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

<210> 1326  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1326

Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln
1				5					10					15

<210> 1327  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1327

Cys	Val	Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val
1				5					10					15

<210> 1328  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1328

Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe
1				5					10					15

<210> 1329  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1329

Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val
1				5					10					15

<210> 1330  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1330

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

<210> 1331  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1331

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

<210> 1332  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1332

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

<210> 1333  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1333

Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly Glu His  
 1 5 10 15

<210> 1334  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1334

Ala Arg Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly  
 1 5 10 15

<210> 1335  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1335

Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro Gln  
 1 5 10 15

<210> 1336  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1336

Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe  
 1 5 10 15

<210> 1337  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1337

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

<210> 1338  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

&lt;400&gt; 1338

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

&lt;210&gt; 1339

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1339

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10					15

&lt;210&gt; 1340

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1340

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

&lt;210&gt; 1341

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1341

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10					15

&lt;210&gt; 1342

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1342

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

&lt;210&gt; 1343

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1343

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

&lt;210&gt; 1344

<211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1344

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

<210> 1345  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1345

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

<210> 1346  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1346

Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val
1				5					10					15

<210> 1347  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1347

Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly	Leu	Thr	Asn
1				5					10					15

<210> 1348  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1348

Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly
1				5					10					15

<210> 1349  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1349

Cys	Gly	Leu	Asn	Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met
1				5					10					15

<210> 1350  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1350

Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe	Tyr
1				5					10					15

<210> 1351  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1351

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

<210> 1352  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1352

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

<210> 1353  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1353

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

<210> 1354  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1354

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10					15

<210> 1355  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1355



Ala Arg Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly  
 1 5 10 15

<210> 1356  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1356

Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro Gln  
 1 5 10 15

<210> 1357  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1357

Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe  
 1 5 10 15

<210> 1358  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1358

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

<210> 1359  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1359

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

<210> 1360  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1360

Cys Val Lys Tyr His Phe Leu Ala Thr Pro Lys Gln Leu Cys Thr  
 1 5 10 15

<210> 1361  
 <211> 15  
 <212> PRT

<213> *Vespula vulgaris*

<400> 1361

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

<210> 1362

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1362

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10					15

<210> 1363

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1363

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

<210> 1364

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1364

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

<210> 1365

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1365

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

<210> 1366

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1366

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

<210> 1367  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1367

Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val
1				5					10					15

<210> 1368  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1368

Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly	Leu	Thr	Asn
1				5					10					15

<210> 1369  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1369

Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly
1				5					10					15

<210> 1370  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1370

Cys	Gly	Leu	Asn	Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met
1				5					10					15

<210> 1371  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1371

Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe	Tyr
1				5					10					15

<210> 1372  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1372

Glu	Tyr	Val	Phe	Cys	Gly	Leu	Asn	Ser	Phe	Ala	Val	Glu	Ser	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1                      5                      10                      15

<210> 1373  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1373

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

<210> 1374  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1374

Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly Glu His  
 1                      5                      10                      15

<210> 1375  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1375

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

<210> 1376  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1376

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

<210> 1377  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1377

Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe  
 1                      5                      10                      15

<210> 1378  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

&lt;400&gt; 1378

Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln
1				5					10					15

&lt;210&gt; 1379

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1379

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

&lt;210&gt; 1380

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1380

Val	Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val
1				5					10					15

&lt;210&gt; 1381

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1381

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

&lt;210&gt; 1382

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1382

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

&lt;210&gt; 1383

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1383

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10					15

&lt;210&gt; 1384

&lt;211&gt; 15

<212> PRT  
 <213> *Vespula vulgaris*

<400> 1384

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

<210> 1385  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1385

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

<210> 1386  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1386

Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val
1				5					10					15

<210> 1387  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1387

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10					15

<210> 1388  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1388

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

<210> 1389  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1389

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

<210> 1390  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1390

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5				10					15	

<210> 1391  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1391

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

<210> 1392  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1392

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

<210> 1393  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1393

Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly
1				5				10					15	

<210> 1394  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1394

Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln
1				5				10					15	

<210> 1395  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1395

Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe  
 1 5 10 15

<210> 1396  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1396

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

<210> 1397  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1397

Cys Val Lys Tyr His Phe Leu Ala Thr Pro Lys Gln Leu Cys Thr  
 1 5 10 15

<210> 1398  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1398

Asn Cys Arg Trp Ser Ala Arg Ser Asn Thr Arg Ile Lys Leu Asn  
 1 5 10 15

<210> 1399  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1399

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

<210> 1400  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1400

Val Asn Glu Tyr Pro Met Met Ala Gly Ile Ile His Leu Ala Thr  
 1 5 10 15

<210> 1401  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*



<400> 1401

Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly
1				5					10					15

<210> 1402

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1402

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10					15

<210> 1403

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1403

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

<210> 1404

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1404

Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val
1				5					10					15

<210> 1405

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1405

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

<210> 1406

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1406

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

<210> 1407

<211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1407

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

<210> 1408  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1408

Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly Glu His  
 1 5 10 15

<210> 1409  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1409

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

<210> 1410  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1410

Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro Gln  
 1 5 10 15

<210> 1411  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1411

Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe  
 1 5 10 15

<210> 1412  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1412

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

<210> 1413  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1413

Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly
1			5						10					15

<210> 1414  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1414

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10					15

<210> 1415  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1415

Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr	Phe
1				5					10					15

<210> 1416  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1416

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10					15

<210> 1417  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1417

Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly
1				5					10					15

<210> 1418  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1418

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

<210> 1419  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1419

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

<210> 1420  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1420

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

<210> 1421  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1421

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

<210> 1422  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1422

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

<210> 1423  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1423

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

<210> 1424  
 <211> 15  
 <212> PRT

<213> *Vespula vulgaris*

<400> 1424

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

<210> 1425

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1425

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10					15

<210> 1426

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1426

Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly
1				5						10				15

<210> 1427

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1427

Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln
1				5					10					15

<210> 1428

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1428

Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe
1				5					10					15

<210> 1429

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1429

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

<210> 1430  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1430

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

<210> 1431  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1431

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10					15

<210> 1432  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1432

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

<210> 1433  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1433

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10					15

<210> 1434  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1434

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

<210> 1435  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1435

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

<210> 1436  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1436

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

<210> 1437  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1437

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

<210> 1438  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1438

Val Gly Trp Gly Leu Thr Asn Phe Tyr Gly Val Lys Ser Glu Val  
 1 5 10 15

<210> 1439  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1439

Phe Val Asp Thr Val Val Thr Ala Val Gly Trp Gly Leu Thr Asn  
 1 5 10 15

<210> 1440  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1440

Gln Arg Asn Phe Val Asp Thr Val Val Thr Ala Val Gly Trp Gly  
 1 5 10 15

<210> 1441  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

&lt;400&gt; 1441

Cys	Gly	Leu	Asn	Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met
1				5					10					15

&lt;210&gt; 1442

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1442

Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe	Tyr
1				5					10					15

&lt;210&gt; 1443

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1443

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

&lt;210&gt; 1444

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1444

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

&lt;210&gt; 1445

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1445

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10					15

&lt;210&gt; 1446

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1446

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

&lt;210&gt; 1447

&lt;211&gt; 15



<212> PRT  
 <213> *Vespula vulgaris*

<400> 1447

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

<210> 1448  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1448

Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe
1				5					10				15	

<210> 1449  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1449

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10				15	

<210> 1450  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1450

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

<210> 1451  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1451

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

<210> 1452  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1452

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

<210> 1453  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1453

Val	Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val
1				5					10					15

<210> 1454  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1454

Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln
1				5					10					15

<210> 1455  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1455

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

<210> 1456  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1456

Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly
1				5					10					15

<210> 1457  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1457

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

<210> 1458  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1458

Val Gly Trp Gly Leu Thr Asn Phe Tyr Gly Val Lys Ser Glu Val  
 1 5 10 15

<210> 1459  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1459

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

<210> 1460  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1460

Thr Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln Leu Tyr Leu Ile  
 1 5 10 15

<210> 1461  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1461

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

<210> 1462  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1462

Phe Val Asp Thr Val Val Thr Ala Val Gly Trp Gly Leu Thr Asn  
 1 5 10 15

<210> 1463  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*  
 <400> 1463

Tyr Thr Gln Lys Leu Lys Ser Asp Val Asn Tyr Cys Val Tyr Asn  
 1 5 10 15

<210> 1464  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1464

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

<210> 1465

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1465

Arg	Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe
1				5					10					15

<210> 1466

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1466

Tyr	Asn	Pro	Asp	Phe	Pro	Asn	Tyr	Tyr	Met	Gly	Glu	His	Asn	Cys
1				5					10					15

<210> 1467

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1467

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

<210> 1468

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1468

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

<210> 1469

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1469

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

<210> 1470

<211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1470

Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly Glu His  
 1 5 10 15

<210> 1471  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1471

Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro Gln  
 1 5 10 15

<210> 1472  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1472

Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met Thr Ile Lys Phe  
 1 5 10 15

<210> 1473  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1473

Thr Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln Leu Tyr Leu Ile  
 1 5 10 15

<210> 1474  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1474

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

<210> 1475  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1475

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

<210> 1476  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1476

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10					15

<210> 1477  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1477

Cys	Gly	Leu	Asn	Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met
1				5					10					15

<210> 1478  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1478

Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly
1				5					10					15

<210> 1479  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1479

Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly	Leu	Thr	Asn
1				5					10					15

<210> 1480  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1480

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

<210> 1481  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1481

Cys Val Ala Arg Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val  
 1 5 10 15

<210> 1482  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1482

Asn Cys Arg Trp Ser Ala Arg Ser Asn Thr Arg Ile Lys Leu Asn  
 1 5 10 15

<210> 1483  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1483

Val Asn Glu Tyr Pro Met Met Ala Gly Ile Ile His Leu Ala Thr  
 1 5 10 15

<210> 1484  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1484

Thr Pro Gln His Val Leu Thr Ala Ala His Cys Val Ala Arg Tyr  
 1 5 10 15

<210> 1485  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1485

Leu Lys Tyr Ser Met Arg Ile Gly Pro Ala Cys Leu Pro Phe Tyr  
 1 5 10 15

<210> 1486  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1486

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

<210> 1487  
 <211> 15  
 <212> PRT

<213> *Vespula vulgaris*

<400> 1487

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

<210> 1488

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1488

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10					15

<210> 1489

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1489

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

<210> 1490

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1490

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

<210> 1491

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1491

Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe
1				5					10					15

<210> 1492

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1492

Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln
1				5					10					15



<210> 1493  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1493

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

<210> 1494  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1494

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

<210> 1495  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1495

Cys	Val	Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val
1				5					10					15

<210> 1496  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1496

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

<210> 1497  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1497

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

<210> 1498  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1498

His	Pro	Asn	Tyr	Arg	Pro	Lys	Leu	Asn	Asp	Leu	Ala	Val	Ile	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 250

1 5 10 15

<210> 1499  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1499

Thr Trp Ala Ile Asn Asp Thr Lys Ala Thr Gln Leu Tyr Leu Ile  
 1 5 10 15

<210> 1500  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1500

Val Gly Trp Gly Leu Thr Asn Phe Tyr Gly Val Lys Ser Glu Val  
 1 5 10 15

<210> 1501  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1501

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

<210> 1502  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1502

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

<210> 1503  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1503

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

<210> 1504  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

&lt;400&gt; 1504

Tyr	Thr	Gln	Lys	Leu	Lys	Ser	Asp	Val	Asn	Tyr	Cys	Val	Tyr	Asn
1				5					10					15

&lt;210&gt; 1505

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1505

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

&lt;210&gt; 1506

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1506

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

&lt;210&gt; 1507

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1507

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

&lt;210&gt; 1508

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1508

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

&lt;210&gt; 1509

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Vespula vulgaris*

&lt;400&gt; 1509

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10					15

&lt;210&gt; 1510

&lt;211&gt; 15

<212> PRT  
 <213> *Vespula vulgaris*

<400> 1510

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

<210> 1511  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1511

Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly
1				5					10					15

<210> 1512  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1512

Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe
1				5					10					15

<210> 1513  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1513

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

<210> 1514  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1514

Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln
1				5					10					15

<210> 1515  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1515

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10					15

<210> 1516  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1516

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

<210> 1517  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1517

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10					15

<210> 1518  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1518

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

<210> 1519  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1519

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

<210> 1520  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1520

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

<210> 1521  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1521

Gln	Arg	Asn	Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly
1				5					10					15

<210> 1522  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1522

Cys	Gly	Leu	Asn	Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met
1				5					10					15

<210> 1523  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1523

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

<210> 1524  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1524

Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val
1				5					10					15

<210> 1525  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1525

Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly	Leu	Thr	Asn
1				5					10					15

<210> 1526  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1526

Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe	Tyr
1				5					10					15

<210> 1527  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1527

Thr	Pro	Gln	His	Val	Leu	Thr	Ala	Ala	His	Cys	Val	Ala	Arg	Tyr
1				5					10					15

<210> 1528

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1528

Arg	Leu	Lys	Tyr	Ser	Met	Arg	Ile	Gly	Pro	Ala	Cys	Leu	Pro	Phe
1				5					10					15

<210> 1529

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1529

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

<210> 1530

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1530

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

<210> 1531

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1531

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

<210> 1532

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1532

Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val	Gly	Glu	His
1				5					10					15

<210> 1533

<211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1533

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

<210> 1534  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1534

Ala	Thr	Arg	Phe	Leu	Tyr	Cys	Gly	Ala	Thr	Ile	Ile	Thr	Pro	Gln
1				5					10					15

<210> 1535  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1535

Val	Ala	Arg	Tyr	Lys	Arg	Ile	Leu	Tyr	Ile	Leu	Gly	Val	Val	Val
1				5					10					15

<210> 1536  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1536

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10					15

<210> 1537  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1537

Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe
1				5					10					15

<210> 1538  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1538

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15



<210> 1539  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1539

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

<210> 1540  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1540

Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val
1				5					10					15

<210> 1541  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1541

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

<210> 1542  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1542

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10					15

<210> 1543  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1543

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

<210> 1544  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1544

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

<210> 1545  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1545

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

<210> 1546  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1546

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

<210> 1547  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1547

Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly Glu His  
 1 5 10 15

<210> 1548  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1548

Ala Arg Tyr Lys Arg Ile Leu Tyr Ile Leu Gly Val Val Val Gly  
 1 5 10 15

<210> 1549  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1549

Ala Thr Arg Phe Leu Tyr Cys Gly Ala Thr Ile Ile Thr Pro Gln  
 1 5 10 15

<210> 1550  
 <211> 15  
 <212> PRT

<213> *Vespula vulgaris*

<400> 1550

Ser	Phe	Ala	Val	Glu	Ser	Ile	Ala	Ser	Lys	Met	Thr	Ile	Lys	Phe
1				5					10					15

<210> 1551

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1551

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

<210> 1552

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1552

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

<210> 1553

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1553

Cys	Val	Lys	Tyr	His	Phe	Leu	Ala	Thr	Pro	Lys	Gln	Leu	Cys	Thr
1				5					10					15

<210> 1554

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1554

Val	Asn	Glu	Tyr	Pro	Met	Met	Ala	Gly	Ile	Ile	His	Leu	Ala	Thr
1				5					10					15

<210> 1555

<211> 15

<212> PRT

<213> *Vespula vulgaris*

<400> 1555

Thr	Trp	Ala	Ile	Asn	Asp	Thr	Lys	Ala	Thr	Gln	Leu	Tyr	Leu	Ile
1				5					10					15

<210> 1556  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1556

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

<210> 1557  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1557

Asn	Cys	Arg	Trp	Ser	Ala	Arg	Ser	Asn	Thr	Arg	Ile	Lys	Leu	Asn
1				5					10					15

<210> 1558  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1558

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

<210> 1559  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1559

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

<210> 1560  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1560

Val	Gly	Trp	Gly	Leu	Thr	Asn	Phe	Tyr	Gly	Val	Lys	Ser	Glu	Val
1				5					10					15

<210> 1561  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1561

Phe	Val	Asp	Thr	Val	Val	Thr	Ala	Val	Gly	Trp	Gly	Leu	Thr	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

<210> 1562  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1562

Gln Arg Asn Phe Val Asp Thr Val Val Thr Ala Val Gly Trp Gly  
 1 5 10 15

<210> 1563  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1563

Cys Gly Leu Asn Ser Phe Ala Val Glu Ser Ile Ala Ser Lys Met  
 1 5 10 15

<210> 1564  
 <211> 15  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1564

Leu Lys Tyr Ser Met Arg Ile Gly Pro Ala Cys Leu Pro Phe Tyr  
 1 5 10 15

<210> 1565  
 <211> 1  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1565

Thr  
 1

<210> 1566  
 <211> 3  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1566

Lys Leu Lys  
 1

<210> 1567  
 <211> 8  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1567

Pro Asp Phe Pro Asn Tyr Tyr Met  
1 5

<210> 1568

<211> 5

<212> PRT

<213> *Vespula vulgaris*

<400> 1568

Ser Ala Arg Ser Asn  
1 5

<210> 1569

<211> 8

<212> PRT

<213> *Vespula vulgaris*

<400> 1569

Asp Val Pro Pro Ser Ser Asn Cys  
1 5

<210> 1570

<211> 1

<212> PRT

<213> *Vespula vulgaris*

<400> 1570

Asp

1

<210> 1571

<211> 3

<212> PRT

<213> *Vespula vulgaris*

<400> 1571

Asn Thr Tyr

1

<210> 1572

<211> 10

<212> PRT

<213> *Vespula vulgaris*

<400> 1572

Trp Lys Asn Pro Ser Arg Ile Val Gly Gly  
1 5 10

<210> 1573

<211> 9

<212> PRT  
 <213> *Vespula vulgaris*

<400> 1573

Thr Trp Ala Ile Asn Asp Thr Lys Ala  
 1 5

<210> 1574  
 <211> 5  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1574

Asn Tyr Arg Pro Lys  
 1 5

<210> 1575  
 <211> 10  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1575

Ala Cys Gln Phe Asp Ser Gly Gly Pro Ile  
 1 5 10

<210> 1576  
 <211> 9  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1576

Thr Cys Ala Asp Glu Ala Pro Gly Val  
 1 5

<210> 1577  
 <211> 7  
 <212> PRT  
 <213> *Vespula vulgaris*

<400> 1577

Arg Ser Thr Pro Gly Glu Ile  
 1 5