

SEQUENCE LISTING

<110> Airmid Healthgroup Ltd

5 <120> Novel proteins and detection methods

<130> P15641

<160> 8

10 <170> PatentIn version 3.5

<210> 1

<211> 363

15 <212> PRT

<213> Cimex lectularius

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Tyr Gln Gly Thr Asp Ala Gly Tyr Ala Asn Asp Ala Thr Tyr Phe Asn
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25 Gly Val Ala Asn Gly Leu Asn Thr Val Ser Asn Asp Phe Asn Gly Val
35 40 45

Ala Thr Gly Phe Asn Gly Val Ala Thr Gly Phe Asn Gly Val Ala Thr
30 50 55 60

Gly Phe Asn Gly Val Ala Thr Gly Phe Asn Gly Val Ala Thr Gly Phe
65 70 75 80

35 Asn Gly Val Ala Thr Gly Phe Asp Gly Val Ala Thr Asp Leu Asn Gly

	85	90	95
	Val Ser Thr Gly Phe Val Asn Ala Ala Pro Ala Thr Asp Ala Val Asp		
	100	105	110
5	Tyr Val Ala Gly Asn Asn Leu Asp Gly Val Ala Ser Gly Phe Val Asp		
	115	120	125
	Asn Ala Ala Gly Tyr Tyr Asn Ala Pro Thr Thr Cys Leu Thr His Arg		
10	130	135	140
	Leu Glu Gln Val Val Arg Pro Val Val Asp Glu Cys Val Arg His Val		
	145	150	155
	Pro Val Val Arg Lys Thr Val Arg His Gln Glu Glu Gln Phe Thr Arg		
15	165	170	175
	His Val Pro Val Val Glu Lys Thr Val Ser Gln Gln Glu Glu Lys Phe		
	180	185	190
20	Val Arg His Val Pro Val Val Gln Lys Tyr Thr Arg Pro Val Val Glu		
	195	200	205
	Thr Arg Thr His His Val Pro Val Val Lys His Arg Thr Lys Thr Val		
25	210	215	220
	Val Glu Pro Tyr Thr Asp His Val Pro Val Thr Glu Lys Tyr Thr Arg		
	225	230	235
	Pro Val Glu Glu Thr Val Val Arg Thr Val Pro Val Val Glu Arg Arg		
30	245	250	255
	Thr Lys Pro Val Val His Gln His Val Arg His Val Pro Val Thr Glu		
	260	265	270
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Arg Arg Ser Arg Pro Val Val Glu Ser His Val Thr Thr Val Pro Val
 275 280 285

5 Lys Gln Arg Phe Val Lys Asn Leu Val Glu Gln Arg Val Arg Ser Ser
 290 295 300

Ser Asn Pro Cys Ala Pro Cys Pro Pro Gly Phe Tyr Ser Gly Val Glu
 305 310 315 320

10 Gly Tyr Ala Pro Ala Ser Tyr Ala Thr Ser Ser Phe Ala Ala Pro Ala
 325 330 335

Leu Gly Asp Val Tyr Thr Gly Ser Phe Ala Gly His Ala Thr Glu Thr
 340 345 350

15 Leu Pro Ala Thr Tyr Asn Thr His Ala Thr Cys
 355 360

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20 <211> 14
 <212> PRT
 <213> Cimex lectularius

<400> 2

25 Arg His Val Pro Val Thr Glu Arg Arg Ser Arg Pro Val Val
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<210> 3

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<400> 3

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Lys Tyr Thr Arg Pro Val Val Glu Thr Arg Thr His His Val
 1 5 10

<210> 4
 5 <211> 250
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<400> 4
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Val Ala Gly Asn Asn Leu Asp Gly Val Ala Ser Gly Phe Val Asp Asn
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15 Ala Ala Gly Tyr Tyr Asn Ala Pro Thr Thr Cys Leu Thr His Arg Leu
 20 25 30

Glu Gln Val Val Arg Pro Val Val Asp Glu Cys Val Arg His Val Pro
 35 40 45

20 Val Val Arg Lys Thr Val Arg His Gln Glu Glu Gln Phe Thr Arg His
 50 55 60

Val Pro Val Val Glu Lys Thr Val Ser Gln Gln Glu Glu Lys Phe Val
 25 65 70 75 80

Arg His Val Pro Val Val Gln Lys Tyr Thr Arg Pro Val Val Glu Thr
 85 90 95

30 Arg Thr His His Val Pro Val Val Lys His Arg Thr Lys Thr Val Val
 100 105 110

Glu Pro Tyr Thr Asp His Val Pro Val Thr Glu Lys Tyr Thr Arg Pro
 115 120 125

35

Val Glu Glu Thr Val Val Arg Thr Val Pro Val Val Glu Arg Arg Thr
 130 135 140

Lys Pro Val Val His Gln His Val Arg His Val Pro Val Thr Glu Arg
 5 145 150 155 160

Arg Ser Arg Pro Val Val Glu Ser His Val Thr Thr Val Pro Val Lys
 165 170 175

10 Gln Arg Phe Val Lys Asn Leu Val Glu Gln Arg Val Arg Ser Ser Ser
 180 185 190

Asn Pro Cys Ala Pro Cys Pro Pro Gly Phe Tyr Ser Gly Val Glu Gly
 195 200 205

15 Tyr Ala Pro Ala Ser Tyr Ala Thr Ser Ser Phe Ala Ala Pro Ala Leu
 210 215 220

Gly Asp Val Tyr Thr Gly Ser Phe Ala Gly His Ala Thr Glu Thr Leu
 20 225 230 235 240

Pro Ala Thr Tyr Asn Thr His Ala Thr Cys
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30 <400> 5

Met Leu Val Val Leu Ser Leu Ala Leu Val Ala Leu Ala His Ala Gly
 1 5 10 15

35 Gly Pro Ala His Tyr Arg Thr Ala Ser Gly Ala Val Gly Val Leu Asp

	20	25	30
	Gly Ser Leu Gly Gln Thr His Glu Glu Thr Gln Lys Gly Tyr Ala Gly		
	35	40	45
5	Asp Ser Val Ser Gln Phe Thr Ser Asn Val Gln Gly Ala His Ser Tyr		
	50	55	60
	Ser Thr Asn Ser Phe Ser Arg Thr Thr Asn Gly Gly Val Ala Val Gly		
10	65	70	75 80
	Ala Pro Ala Val Ala Ala Val Arg Thr Val Gly Pro Ala Val Ser Tyr		
	85	90	95
15	Ala Thr Pro Ala Val Ala Ala Leu Arg Gly Ala Ser Phe Asn His Leu		
	100	105	110
	Gly Tyr Ser Ser Gly Leu Gly Leu Ser Ser Gly Leu Gly Tyr Gly Ser		
	115	120	125
20	Gly Val Arg Tyr Gly Ala Gly Leu Gly Tyr Gly Ser Gly Leu Arg Tyr		
	130	135	140
	Gly Ser Gly Leu Gly Tyr Gly Ser Gly Leu Arg Tyr Gly Ser Gly Leu		
25	145	150	155 160
	Gly Tyr Gly Ser Gly Leu Ser Tyr Gly Ala Gly Leu Gly Tyr Gly Ser		
	165	170	175
30	Gly Leu Arg Tyr Gly Ala Gly Leu Gly Tyr Gly Ser Gly Val Ser Tyr		
	180	185	190
	Gly Ala Gly Leu Gly Tyr Thr Ala Val Ser Pro Ala Val Thr Thr Val		
	195	200	205
35			

	His	Ala	Ala	Pro	Ala	Val	Thr	Thr	Val	His	Ala	Ala	Pro	Ala	Val	Ala
	210					215										220
	Ser	Leu	Arg	Ser	Ser	Thr	Tyr	His	Gly	Ser	Gly	Tyr	Thr	Gly	Ala	Gly
5	225					230										240
	Tyr	Ala	Ser	Ala	Ala	Pro	Leu	Val	Ser	Gly	Leu	Arg	Thr	Ser	Ser	Val
						245										255
10	Ser	Tyr	Ser	Ser	Pro	Ala	Val	Thr	Thr	Val	His	Ala	Ala	Pro	Ala	Val
						260										270
	Ala	Ala	Val	Arg	Thr	Val	Ala	Pro	Ala	Val	Ser	Tyr	Ala	Ala	Pro	Ala
						275										285
15	Val	Ser	Tyr	Ala	Ala	Pro	Ala	Val	Ala	Ser	Val	Arg	Ser	Ser	Thr	Tyr
						290										300
	His	Gly	Asn	Gly	Tyr	Thr	Gly	Ala	Ser	Tyr	Ala	Ala	Pro	Ala	Val	Ser
	305					310										320
20																
	Ala	Val	Arg	Thr	Val	Ala	Pro	Ala	Val	Ser	Tyr	Ala	Ala	Pro	Ala	Val
						325										335
	Ser	Tyr	Ala	Ala	Pro	Ala	Val	Ser	Tyr	Ala	Ala	Pro	Ala	Val	Ala	Ser
25						340										350
	Val	Arg	Ser	Ser	Thr	Tyr	His	Gly	Asn	Gly	Tyr	Thr	Gly	Ala	Ser	Tyr
						355										365
30	Ala	Ala	Pro	Ala	Val	Ala	Ala	Val	Arg	Thr	Ser	Ser	Val	Ser	Tyr	Ser
						370										380
	Ser	Pro	Ala	Val	Thr	Thr	Val	His	Ala	Ala	Pro	Ala	Val	Ala	Ala	Val
	385					390										400
35																

	Arg Thr Val Thr Pro Ala Val Ser Tyr Ala Ala Pro Ala Val Ala Ser
	405 410 415
5	Val Arg Ser Ser Ser Tyr His Gly Asn Gly Tyr Thr Gly Val Gly Tyr
	420 425 430
	Gly Ala Val Ala Pro Ala Val Ser Tyr Ala Ala Pro Ala Val Ala Ala
	435 440 445
10	Val Arg Asn Val Thr Pro Ala Val Ser Tyr Ser Ala Pro Ala Val Thr
	450 455 460
	Thr Val His Ala Ala Pro Ala Val Ala Ala Val Arg Thr Val Ala Pro
	465 470 475 480
15	Ala Val Ser Tyr Ala Ala Pro Ala Val Ala Ser Val Arg Ser Ser Ser
	485 490 495
	Tyr His Gly Asn Gly Tyr Thr Gly Val Gly Tyr Gly Ala Val Ala Pro
	500 505 510
20	Ala Val Ser Tyr Ala Ala Pro Ala Val Ala Ala Val Arg Thr Val Ser
	515 520 525
	Thr Pro Ala Val Ser Tyr Ala Ala Pro Ala Val Thr Thr Val His Ala
25	530 535 540
	Thr Pro Ala Phe Ser Tyr Gly Ala Pro Ala Phe Arg Thr Val Ser Ala
	545 550 555 560
30	Gly Pro Ala Val Asn Thr Tyr Ser Ser Ser Ser Tyr Leu Gly Asn Ala
	565 570 575
	Tyr Gly Gly Leu Gly Tyr Ala Ala His Val Ser Pro Val Ala Val Gly
	580 585 590
35	

Tyr Ser Ala Pro Ser Val Arg Thr Tyr Ser Thr Ala Thr Pro Leu Phe
 595 600 605

Lys Ser Tyr Ala Ala Ala Pro Ala Leu Thr Thr Tyr Ala Ala His Ser
 5 610 615 620

Ala Pro Leu Ala Val Gly Phe Ser Ala Ala Pro Ser Val Ser His Ala
 625 630 635 640

10 Thr Phe Ser Ser Leu Gly Ser Ser Tyr Ser Phe
 645 650

<210> 6
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 15 <212> PRT
 <213> Cimex lectularius

<400> 6

20 Ser Gly Leu Arg Thr Ser Ser Val Ser Tyr Ser Ser Pro Ala
 1 5 10

<210> 7
 25 <211> 14
 <212> PRT
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30 His Ser Tyr Ser Thr Asn Ser Phe Ser Arg Thr Thr Asn Gly
 1 5 10

<210> 8
 35 <211> 280

<212> PRT

<213> Cimex lectularius

<400> 8

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Met Leu Val Val Leu Ser Leu Ala Leu Val Ala Leu Ala His Ala Gly

1 5 10 15

Gly Pro Ala His Tyr Arg Thr Ala Ser Gly Ala Val Gly Val Leu Asp

10 20 25 30

Gly Ser Leu Gly Gln Thr His Glu Glu Thr Gln Lys Gly Tyr Ala Gly

35 40 45

15

Asp Ser Val Ser Gln Phe Thr Ser Asn Val Gln Gly Ala His Ser Tyr

50 55 60

Ser Thr Asn Ser Phe Ser Arg Thr Thr Asn Gly Gly Val Ala Val Gly

20 65 70 75 80

Ala Pro Ala Val Ala Ala Val Arg Thr Val Gly Pro Ala Val Ser Tyr

85 90 95

25 Ala Thr Pro Ala Val Ala Ala Leu Arg Gly Ala Ser Phe Asn His Leu

100 105 110

Gly Tyr Ser Ser Gly Leu Gly Leu Ser Ser Gly Leu Gly Tyr Gly Ser

115 120 125

30

Gly Val Arg Tyr Gly Ala Gly Leu Gly Tyr Gly Ser Gly Leu Arg Tyr

130 135 140

Gly Ser Gly Leu Gly Tyr Gly Ser Gly Leu Arg Tyr Gly Ser Gly Leu

35 145 150 155 160

	Gly Tyr Gly Ser Gly Leu Ser Tyr Gly Ala Gly Leu Gly Tyr Gly Ser
	165 170 175
5	Gly Leu Arg Tyr Gly Ala Gly Leu Gly Tyr Gly Ser Gly Val Ser Tyr
	180 185 190
	Gly Ala Gly Leu Gly Tyr Thr Ala Val Ser Pro Ala Val Thr Thr Val
	195 200 205
10	His Ala Ala Pro Ala Val Thr Thr Val His Ala Ala Pro Ala Val Ala
	210 215 220
	Ser Leu Arg Ser Ser Thr Tyr His Gly Ser Gly Tyr Thr Gly Ala Gly
15	225 230 235 240
	Tyr Ala Ser Ala Ala Pro Leu Val Ser Gly Leu Arg Thr Ser Ser Val
	245 250 255
20	Ser Tyr Ser Ser Pro Ala Val Thr Thr Val His Ala Ala Pro Ala Val
	260 265 270
	Ala Ala Val Arg Thr Val Ala Pro
	275 280
25	