

Перечень последовательностей

<110> ЗАКРЫТОЕ АКЦИОНЕРНОЕ ОБЩЕСТВО «БИОКАД»

<120> МОНОКЛОНАЛЬНОЕ АНТИТЕЛО К IL-5Ra

<140> RU2017134413

<141> 2017-10-03

<160> 18

<170> BiSSAP 1.3.6

<210> 1

<211> 5

<212> PRT

<213> Искусственная последовательность

<400> 1

Asn Tyr Ala Met Ser

1 5

<210> 2

<211> 17

<212> PRT

<213> Искусственная последовательность

<400> 2

Ala Ile Asn Ser Gly Gly Lys Ser Thr Asn Tyr Ala Asp Ser Val Lys

1 5 10 15

Gly

<210> 3

<211> 13

<212> PRT

<213> Искусственная последовательность

<400> 3

Asp Tyr Ala Thr Asn Tyr Gly Val Pro Tyr Phe Gly Ser

1 5 10

<210> 4

<211> 121

<212> PRT

<213> Искусственная последовательность

<400> 4

Gln Val Thr Leu Lys Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr

20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

35 40 45

Ser Ala Ile Asn Ser Gly Gly Lys Ser Thr Asn Tyr Ala Asp Ser Val

50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr

65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

85 90 95

Ala Asp Tyr Ala Thr Asn Tyr Gly Val Pro Tyr Phe Gly Ser Trp Gly

100 105 110

Gln Gly Thr Thr Val Thr Val Ser

115 120

<210> 5

<211> 121
 <212> PRT
 <213> Искусственная последовательность

<400> 5
 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ala Ile Asn Ser Gly Gly Lys Ser Thr Asn Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Asp Tyr Ala Thr Asn Tyr Gly Val Pro Tyr Phe Gly Ser Trp Gly
 100 105 110
 Gln Gly Thr Met Val Thr Val Ser Ser
 115 120

<210> 6
 <211> 14
 <212> PRT
 <213> Искусственная последовательность

<400> 6
 Ser Gly Ser Arg Ser Asn Ile Gly Ser Gly Tyr Asp Val His
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<210> 7
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 <212> PRT
 <213> Искусственная последовательность

<400> 7
 Asp Asp Asn Asn Arg Pro Ser
 1 5

<210> 8
 <211> 12
 <212> PRT
 <213> Искусственная последовательность

<400> 8
 Gln Ser Tyr Asp Ser Ser Leu Ser Gly His Val Val
 1 5 10

<210> 9
 <211> 112
 <212> PRT
 <213> Искусственная последовательность

<400> 9
 Gln Ala Gly Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
 1 5 10 15
 Arg Val Thr Ile Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Ser Gly
 20 25 30
 Tyr Asp Val His Trp Tyr Gln Gln Val Pro Gly Thr Ala Pro Lys Leu
 35 40 45
 Leu Ile Phe Asp Asp Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
 50 55 60
 Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
 65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser
85 90 95
Leu Ser Gly His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 10

<211> 112

<212> PRT

<213> Искусственная последовательность

<400> 10

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
1 5 10 15
Arg Val Thr Ile Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Ser Gly
20 25 30
Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
35 40 45
Leu Ile Tyr Asp Asp Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60
Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65 70 75 80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser
85 90 95
Leu Ser Gly His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 11

<211> 451

<212> PRT

<213> Искусственная последовательность

<400> 11

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

	260		265		270
Glu Asp Pro	Glu Val Lys Phe Asn Trp Tyr Val Asp Gly	Val Glu Val			
	275		280		285
His Asn Ala	Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr				
	290		295		300
Arg Val Val	Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly				
305		310		315	320
Lys Glu Tyr	Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile				
	325		330		335
Glu Lys Thr	Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val				
	340		345		350
Tyr Thr Leu	Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser				
	355		360		365
Leu Thr Cys	Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu				
370		375		380	
Trp Glu Ser	Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro				
385		390		395	400
Val Leu Asp	Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val				
	405		410		415
Asp Lys Ser	Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met				
	420		425		430
His Glu Ala	Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser				
	435		440		445
Pro Gly Lys					
450					

<210> 12

<211> 451

<212> PRT

<213> Искусственная последовательность

<400> 12

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

	260		265		270
Glu Asp Pro	Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val				
	275		280		285
His Asn Ala	Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr				
	290		295		300
Arg Val Val	Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly				
305		310		315	320
Lys Glu Tyr	Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile				
	325		330		335
Glu Lys Thr	Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val				
	340		345		350
Tyr Thr Leu	Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser				
	355		360		365
Leu Thr Cys	Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu				
370		375		380	
Trp Glu Ser	Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro				
385		390		395	400
Val Leu Asp	Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val				
	405		410		415
Asp Lys Ser	Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met				
	420		425		430
His Glu Ala	Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser				
	435		440		445
Pro Gly Lys					
450					

<210> 13

<211> 219

<212> PRT

<213> Искусственная последовательность

<400> 13

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

<210> 14

<211> 219

<212> PRT

<213> Искусственная последовательность

<400> 14

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

<210> 15

<211> 1353

<212> DNA

<213> Искусственная последовательность

<400> 15

caagtaaccc taaaggaaag tggaggagga cttgtccaac ccggcggcag ttaagactt 60
agctgtgctg cttctggctt tacttttagc aactatgcta tgtcgtgggt gcgtcaagcg 120
ccaggaaagg gcctagaatg ggtgagcgct atcaatagcg gcggaaaaag cactaactac 180
gcggacagcg tgaaaggccg cttcactata agtcgggaca atgctaataaa cactactgtac 240
ctccagatga actccctaag agctgaggac acggctgtgt actactgcgc tgattatgcg 300
actaactatg gaggccata cttcggaagc tggggccagg gaacgaccgt aactgtgagt 360
agtgtagca ccaaggggccc atcggtcttc cccctggcac cctcctcaa gagcacctct 420
gggggcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacggtg 480
tcgtggaact caggcgccct gaccagcggc gtgcacacct tccgggctgt cctacagtcc 540
tcaggactct actccctcag cagcgtgggt accgtgccct ccagcagctt gggcaccag 600
acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gagagttgag 660
cccaaattct gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg 720
ggaccgtcag tcttcctctt cccccaaaa cccaaggaca cctcatgat ctccgggacc 780
cctgagggtca catgcgtggg ggtggacgtg agccacgaag accctgaggt caagttcaac 840

tggtacgtgg acggcgtgga ggtgcataat gccaaagacaa agccgcggga ggagcagtac	900
aacagcacgt accgtgtggg cagcgtcctc accgtcctgc accaggactg gctgaatggc	960
aaggagtaca agtgcaaggt ctccaacaaa gccctcccag ccccatcga gaaaaccatc	1020
tccaaagcca aagggcagcc ccgagaacca caggtgtaca ccctgcccc atcccgggag	1080
gagatgacca agaaccaggt cagcctgacc tgcctgggtca aaggcttcta tcccagcgac	1140
atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cagcctccc	1200
gtgctggact ccgacggctc cttcttcctc tatagcaagc tcaccgtgga caagagcagg	1260
tggcagcagg ggaacgtctt ctcagtctcc gtgatgcatg aggctctgca caaccactac	1320
acgcagaaaa gcctctccct gtccccgggt aaa	1353

<210> 16

<211> 1353

<212> DNA

<213> Искусственная последовательность

<400> 16

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agctgtgctg cttctggctt tacttttagc aactatgcta tgtcgtgggt gcgtcaagcg	120
ccaggaaagg gcctagaatg ggtgagcgct atcaatagcg gcggaaaaag cactaactac	180
gcggacagcg tgaaaggccg cttcactata agtcgggaca atgctaataa cacactgtac	240
ctccagatga actccctaag agctgaggac acggctgtgt actactgcgc tgattatgcg	300
actaactatg gagtgccata cttcggaagc tggggccagg gaacgatggt aactgtgagt	360
agtgctagca ccaaggggcc atcggctctc cccctggcac cctcctcaa gagcacctct	420
gggggcacag cggccctggg ctgcctggtc aaggactact tccccgaacc ggtgacgggtg	480
tcgtggaact caggcgccct gaccagcggc gtgcacacct tcccggctgt cctacagtcc	540
tcaggactct actccctcag cagcgtgggt accgtgccct ccagcagctt gggcaccacg	600
acctacatct gcaacgtgaa tcacaagccc agcaacacca aggtggacaa gagagttgag	660
cccaaactct gtgacaaaac tcacacatgc ccaccgtgcc cagcacctga actcctgggg	720
ggaccgtcag tcttcctctt cccccaaaa cccaaggaca cctcatgat ctcccggacc	780
cctgaggtca catgcgtggg ggtggacgtg agccacgaag accctgaggt caagttcaac	840
tggtacgtgg acggcgtgga ggtgcataat gccaaagacaa agccgcggga ggagcagtac	900
aacagcacgt accgtgtggg cagcgtcctc accgtcctgc accaggactg gctgaatggc	960
aaggagtaca agtgcaaggt ctccaacaaa gccctcccag ccccatcga gaaaaccatc	1020
tccaaagcca aagggcagcc ccgagaacca caggtgtaca ccctgcccc atcccgggag	1080
gagatgacca agaaccaggt cagcctgacc tgcctgggtca aaggcttcta tcccagcgac	1140
atcgccgtgg agtgggagag caatgggcag ccggagaaca actacaagac cagcctccc	1200
gtgctggact ccgacggctc cttcttcctc tatagcaagc tcaccgtgga caagagcagg	1260

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 acgcagaaaa gcctctccct gtccccgggt aaa 1353
 <210> 17
 <211> 657
 <212> DNA
 <213> Искусственная последовательность
 <400> 17
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 gtaccgggga cggctccgaa actactgata tttagacgata ataatagacc gagcggcgta 180
 ccagaccgtt ttagcgggaag caaaagtgga acgagtgctt ctttagccat aactggcctg 240
 caagctgaag atgaagctga ttattactgt cagagctacg acagcagtct gagtggacac 300
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 ctgaataact tctatcccag agaggccaaa gtacagtgga aggtggataa cgccctccaa 480
 tcgggtaact cccaggagag tgtcacagag caggacagca aggacagcac ctacagcctc 540
 agcagcaccg tgacgctgag caaagcagac tacgagaaac acaaagtcta cgcctgcgaa 600
 gtcacccatc agggcctgag ctgcccgtc acaaagagct tcaacagggg agagtgt 657
 <210> 18
 <211> 657
 <212> DNA
 <213> Искусственная последовательность
 <400> 18
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 agctgcagcg gaagcagaag caacataggc agtggatacg acgtacattg gtaccaacaa 120
 ctaccgggga cggctccgaa actactgata tacgacgata ataatagacc gagcggcgta 180
 ccagaccgtt ttagcgggaag caaaagtgga acgagtgctt ctttagccat aactggcctg 240
 caagctgaag atgaagctga ttattactgt cagagctacg acagcagtct gagtggacac 300
 gtagtggttg gaggaggaac gaagctgacg gtattacgta cggtaggctgc accatctgtc 360
 ttcatcttcc cgccatctga tgagcagttg aaatctggaa ctgcctctgt tgtgtgcctg 420
 ctgaataact tctatcccag agaggccaaa gtacagtgga aggtggataa cgccctccaa 480
 tcgggtaact cccaggagag tgtcacagag caggacagca aggacagcac ctacagcctc 540
 agcagcaccg tgacgctgag caaagcagac tacgagaaac acaaagtcta cgcctgcgaa 600
 gtcacccatc agggcctgag ctgcccgtc acaaagagct tcaacagggg agagtgt 657