

Sequence Listing

<110> JUNMENG BIOSCIENCE CO. LTD

<120> ANTI-PCSK9 ANTIBODY AND USE THEREOF

<130> 20150829

<160> 50

<170> PatentIn version 3.5

 $\langle 210 \rangle$ 1

⟨211⟩ 11

<212> PRT

⟨213⟩ Mus musculus

 $\langle 400 \rangle$ 1

Lys Ala Ser Gln Asp Ile Asn Lys Tyr Ile Asp

1 5 10

 $\langle 210 \rangle \quad 2$

⟨211⟩ 7

<212> PRT

⟨213⟩ Mus musculus

 $\langle 400 \rangle$ 2

Tyr Thr Ser Thr Leu Gln Pro

1 5

 $\langle 210 \rangle$ 3 $\langle 211 \rangle$ 8

<212> PRT

<213> Mus musculus

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Val Gln Tyr Asp Asp Leu Trp Thr

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<212> PRT

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<400> 4

Ser Tyr Gly Val His

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Val Ile Trp Arg Gly Gly Ser Thr Asp Tyr Asn Ala Ala Phe Met Ser

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<400> 6

His Arg Asp Asp Asp Asp

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Leu Gln Tyr Asp Asp Leu Trp Thr

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Ser Tyr Gly Ile His
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<400> 13

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Ser Asp Tyr Ala Trp Asn

1 5

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<211> 16

<212> PRT

<213> Mus musculus

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Tyr Ile Ser Tyr Ser Gly Ser Ser Ser Tyr Asn Pro Ser Leu Lys Gly

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<213> Mus musculus

<400> 18

Phe Tyr Tyr Arg Phe Asp Ala Tyr Phe Asp Ser

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<211> 15

<212> PRT

<213> Mus musculus

<400> 19

Arg Ala Ser Glu Ser Val Glu Tyr Tyr Gly Thr Ser Leu Met His

1 5 10 15

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<211> 7

<212> PRT

<213> Mus musculus

<400> 20

Ser Gly Ser Asn Val Glu Ser

1 5

<210> 21

<211> 9

<212> PRT

<213> Mus musculus

<400> 21

Gln Gln Ser Arg Glu Val Pro Ser Thr

1 5

<210> 22

<211> 6

<212> PRT

<213> Mus musculus

<400> 22

Ser Asp Tyr Ala Trp Asn

1 5

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Ser Asp Tyr Ala Trp Asn
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<213> Mus musculus

<400> 26

Asn Ala Tyr Thr Leu Ala Asp

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<210> 27

<211> 9

<212> PRT

<213> Mus musculus

<400> 27

Gln His His Tyr Arg Thr Pro Pro Thr

1 5

<210> 28

<211> 5

<212> PRT

<213> Mus musculus

<400> 28

Asn Tyr Leu Ile Glu

1 5

<210> 29

<211> 17

<212> PRT

<213> Mus musculus

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Met Ile Asn Pro Gly Ser Gly Asp Thr Asn Phe Asn Glu Lys Phe Lys

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Ala

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<213> Mus musculus

<400> 30

Ser Ser Gln Leu Gly Leu Pro Tyr
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<210> 31
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<212> PRT
<213> Mus musculus

<400> 31

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Asp Lys Val Thr Ile Thr Cys Lys Ala Ser Gln Asp Ile Asn Lys Tyr
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Ile Asp Trp Tyr Gln His Lys Pro Gly Lys Gly Pro Arg Leu Leu Ile
35 40 45

His Tyr Thr Ser Thr Leu Gln Pro Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Arg Asp Tyr Ser Phe Ser Ile Ser Asn Leu Glu Pro
65 70 75 80

Glu	Asp	Ile	Ala	Thr	Tyr	Tyr	Cys	Val	Gln	Tyr	Asp	Asp	Leu	Trp	Thr
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Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys
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<210> 32

<211> 111

<212> PRT

<213> Mus musculus

<400> 32

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

<210> 33

<211> 106

<212> PRT

<213> Mus musculus

<400> 33

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

<210> 34

<211> 111

<212> PRT

<213> Mus musculus

<400> 34

Gln	Val	Gln	Leu	Lys	Gln	Ser	Gly	Pro	Ser	Leu	Leu	Gln	Pro	Ser	Gln
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Ser	Leu	Ser	Ile	Thr	Cys	Thr	Val	Ser	Gly	Phe	Ser	Leu	Thr	Ser	Tyr
			20					25					30		
Gly	Ile	His	Trp	Val	Arg	Gln	Ser	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Leu
		35					40					45			
Gly	Val	Ile	Trp	Arg	Gly	Gly	Ile	Thr	Asp	Tyr	Asn	Ala	Pro	Phe	Met
	50						55					60			

Ser	Arg	Leu	Asn	Ile	Thr	Lys	Asp	Asn	Ser	Lys	Asn	Gln	Val	Phe	Phe
65					70					75					80
Lys	Met	Asn	Ser	Leu	Gln	Val	Asp	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys	Ala
				85					90					95	
Asn	His	Arg	Asp	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ala	
			100					105						110	

<210> 35
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 <212> PRT
 <213> Mus musculus

<400> 35

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

<210> 36
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 <212> PRT
 <213> Mus musculus

<400> 36

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

<210> 37

<211> 111

<212> PRT

<213> Mus musculus

<400> 37

Asp	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Ser	Leu	Ala	Val	Ser	Leu	Gly
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Gln	Arg	Ala	Thr	Ile	Ser	Cys	Arg	Ala	Ser	Glu	Ser	Val	Glu	Tyr	Tyr
			20					25					30		
Gly	Thr	Ser	Leu	Met	His	Trp	Tyr	Gln	His	Lys	Pro	Gly	Gln	Thr	Pro
		35					40					45			
Lys	Leu	Leu	Ile	Tyr	Ser	Gly	Ser	Asn	Val	Glu	Ser	Gly	Val	Pro	Ala
	50					55					60				

Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Ser	Leu	Asn	Ile	His
65					70					75					80
Pro	Val	Glu	Glu	Asp	Asp	Ile	Ala	Met	Tyr	Phe	Cys	Gln	Gln	Ser	Arg
				85					90					95	
Glu	Val	Pro	Ser	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys	
			100					105					110		

<210> 38

<211> 119

<212> PRT

<213> Mus musculus

<400> 38

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

<210> 39

<211> 107

<212> PRT

<213> Mus musculus

<400> 39

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

<210> 40

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<212> PRT

<213> Mus musculus

<400> 40

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Ser	Ile	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Ala	Phe	Thr	Asn	Tyr
			20						25				30		
Leu	Ile	Glu	Trp	Ile	Lys	Lys	Arg	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Ile
			35				40					45			
Gly	Met	Ile	Asn	Pro	Gly	Ser	Gly	Asp	Thr	Asn	Phe	Asn	Glu	Lys	Phe
	50						55				60				

Lys	Ala	Lys	Ala	Thr	Leu	Thr	Ala	Asp	Lys	Ser	Ser	Thr	Thr	Ala	Tyr
65					70				75					80	
Met	Gln	Leu	Asn	Ser	Leu	Thr	Phe	Asp	Asp	Ser	Ala	Val	Tyr	Phe	Cys
			85						90					95	
Ala	Arg	Ser	Ser	Gln	Leu	Gly	Leu	Pro	Tyr	Trp	Gly	Gln	Gly	Thr	Leu
		100						105					110		
Val	Thr	Val	Ser	Ala											
		115													

<210> 41
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 <212> DNA
 <213> Homo sapiens

<400> 41

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<210> 42

<211> 2365

<212> DNA

<213> Homo sapiens

<400> 42

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tcctacaagt gggctctgca tggcagcgct gattgccagg atggctctga tgagtccag	180
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ccaagaggag tgaactgggtg tgagaggacc accctgagca atggcggctg ccagtatctg	2040
tgcctccctg ccccgcatg caacccccac tcgccaagt ttacctgcgc ctgcccggac	2100
ggcatgctgc tggccaggga catgaggagc tgcctcacag aggetgagge tgcagtggcc	2160
accagaggaga catccaccgt caggctaaag gtcagctcca cagccgtaag gacacagcac	2220
acaaccaccc gacctgttcc cgacacctcc cggctgcctg gggccacccc tgggctcacc	2280
acggtggaga tagtgacaat gtctcaccaa gctctgggcg acgttgctgg cagaggaaat	2340
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<210> 43

<211> 31

<212> DNA

<213> Artificial sequence

<400> 43
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<210> 44
<211> 25
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<400> 44
gatcctcgag ccctcacgct actgg 25

<210> 45
<211> 106
<212> PRT
<213> Artificial sequence

<400> 45

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

<210> 46
 <211> 318
 <212> DNA
 <213> Artificial sequence

<400> 46
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 ggcaaggccc ccaagctgct gatccactac gccagcagcc tgcagcccg cgtgcccagc 180
 agattcagcg gcagcggcag cggcagagac tacaccttca ccatcagcag cctgcagccc 240
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 accaaggtgg agatcaag
 318

<210> 47
 <211> 111
 <212> PRT
 <213> Artificial sequence

<400> 47

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

Asn	His	Arg	Asp	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser
			100					105					110	

<210> 48

<211> 333

<212> DNA

<213> Artificial sequence

<400> 48

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ccgggcaaag gcctggaatg gattggcgtg atttggcgcg gcggcattac cgattataac	180
gcgccgttta tgagccgcgt gaccattagc aaagataaca gcaaaaacca ggtgagcttt	240
aaactgagca gcgtgaccgc ggcggatacc gcggtgtatt attgcgcgaa ccatcgcgat	300
tggggccagg gcaccctggt gaccgtgagc agc	333

<210> 49

<211> 111

<212> PRT

<213> Artificial sequence

<400> 49

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

85

90

95

Asn His Arg Asp Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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<210> 50

<211> 333

<212> DNA

<213> Artificial sequence

<400> 50

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acctgcaccg tgagcggcctt tagcattagc agctatggcg tgcattggat tcgccagagc	120
ccgggcaaag gcctggaatg gattggcgtg atttggcgcg gcggcagcac cgattataac	180
gcggcgttta tgagccgcgt gaccattagc aaagataaca gcaaaaacca ggtgagcttt	240
aaactgagca gcgtgaccgc ggcggatacc gcggtgtatt attgcgcgaa ccatecgcat	300
tggggccagg gcaccctggt gaccgtgagc agc	333