

SEQUENCE LISTING

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<120> Off-the-shelf

<130> N409650W0-A

<150> EP 17159242.1

<151> 2017-03-03

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<151> 2017-03-03

<150> GB 1703809.2

<151> 2017-03-09

<160> 188

<170> PatentIn version 3.5

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Phe Thr Gln Ser Gly Thr Met Lys Ile
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Phe Val Leu Ala Asn Gly His Ile Leu

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Lys Ala Met Val Gln Ala Trp Pro Phe
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Ala Met Asp Ala Ile Phe Gly Ser Leu

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Ser Ser Ile Ser Val Tyr Tyr Thr Leu

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Ser Ala Phe Glu Pro Ala Thr Glu Met

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Phe Ser Tyr Glu Gln Asp Pro Thr Leu
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Arg Thr Tyr Trp Ile Ile Ile Glu Leu
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Thr Thr Met Glu Thr Gln Phe Pro Val
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Phe Ser Phe Val Arg Ile Thr Ala Leu
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Lys Met Ser Ser Leu Leu Pro Thr Met
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Lys Met His Ser Leu Leu Ala Leu Met
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Phe Met Asn Pro Tyr Asn Ala Val Leu
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Lys Ser Met Thr Met Met Pro Ala Leu
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Tyr Val Asp Glu Lys Ala Pro Glu Phe
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Lys Thr Met Ser Thr Phe His Asn Leu
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Arg Ala Ile Glu Gln Leu Ala Ala Met
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Val Met Ser Glu Arg Val Ser Gly Leu
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Tyr Arg Ala Gln Arg Phe Trp Ser Trp
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Phe Phe Phe Glu Arg Ile Met Lys Tyr
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Ser Thr Phe Lys Asn Trp Pro Phe Leu
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Ala Ile Trp Glu Ala Leu Ser Val Met
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Lys Val Ala Glu Leu Val Arg Phe Leu
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<400> 38

Phe Val Gln Glu Asn Tyr Leu Glu Tyr

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Arg Ala Leu Ala Glu Thr Ser Tyr Val
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Tyr Ile Phe Ala Thr Cys Leu Gly Leu
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<400> 41

Leu Gln Lys Tyr Ala Leu Gly Phe Gln His Ala Leu Ser Pro Ser Met
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Met Ala Tyr Ser Asp Thr Thr Met Met Ser Asp Asp Ile Asp
20 25 30

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Val Cys Met Phe Thr Ser Ser Arg Met Ser Ser Phe Asn Arg His Val
1 5 10 15

Asn Ile Asp Tyr Leu Met Asn Arg Pro Gln Asn Leu Arg Leu
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<400> 43

Asn Met Ala Phe Val Thr Ser Gly Glu Leu Val Arg His Arg Arg His
1 5 10 15

Thr Arg Phe Thr Gln Ser Gly Thr Met Lys Ile His Ile Leu
20 25 30

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Leu Asp Ser Phe Thr Val Cys Asn Ser His Val Leu Cys Ile Ala Lys
1 5 10 15

Leu Gly Phe Ser Phe Val Arg Ile Thr Ala Leu Met Val Ser

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<400> 45

Ala Gln Lys Met Ser Ser Leu Leu Pro Thr Met Trp Leu Gly Ala Met
1 5 10 15

Met Gln Met Phe Gly Leu Gly Ala Ile Ser Leu Ile Leu Val
20 25 30

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<400> 46

Leu Glu Arg Leu Ala Tyr Leu His Ala Arg Leu Arg Glu Leu Leu Gln
1 5 10 15

Thr Leu Lys Ala Met Val Gln Ala Trp Pro Phe Thr Cys Leu
20 25 30

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<400> 47

Ser Ser Tyr Phe Val Leu Ala Asn Gly His Ile Leu Pro Asn Ser Leu

1 5 10 15

Arg His Lys Cys Cys Phe Ser Ser Ser Gly Thr Thr Ser Phe
20 25 30

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<400> 48

Thr Ala Lys Lys Val Arg Arg Ala Ile Glu Gln Leu Ala Ala Met Gln
1 5 10 15

Leu Glu Phe Met Phe Gln Glu Ala Leu Lys Leu Lys Val Ala
20 25 30

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<400> 49

Thr Ser His Ser Tyr Val Leu Val Thr Ser Leu Asn Leu Ser Tyr Tyr
1 5 10 15

Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser Ala Lys Ile
20 25 30

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<400> 50

Leu Asp Ser Phe Thr Val Cys Asn Ser His Val Leu Cys Ile Ala Val
1 5 10 15

Cys Met Phe Thr Ser Ser Arg Met Ser Ser Phe Asn Arg His
20 25 30

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<400> 51

Leu Arg His Lys Cys Cys Phe Ser Ser Ser Gly Thr Thr Ser Phe Gln
1 5 10 15

Thr Leu Lys Ala Met Val Gln Ala Trp Pro Phe Thr Cys Leu
20 25 30

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<400> 52

Tyr Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser Ala Lys Ile Thr
1 5 10 15

Ala Lys Lys Val Arg Arg Ala Ile Glu Gln Leu Ala Ala Met
20 25 30

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<400> 53

Met	Met	Ala	Tyr	Ser	Asp	Thr	Thr	Met	Met	Ser	Asp	Asp	Ile	Asp	His
1				5				10					15		

Thr	Arg	Phe	Thr	Gln	Ser	Gly	Thr	Met	Lys	Ile	His	Ile	Leu
			20					25					30

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<400> 54

Ala	Gln	Lys	Met	Ser	Ser	Leu	Leu	Pro	Thr	Met	Trp	Leu	Gly	Ala	Leu
1				5				10					15		

Gln	Lys	Tyr	Ala	Leu	Gly	Phe	Gln	His	Ala	Leu	Ser	Pro	Ser
			20					25					30

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<400> 55

Thr	Ser	His	Ser	Tyr	Val	Leu	Val	Thr	Ser	Leu	Asn	Leu	Ser	Tyr	Asn
1				5				10					15		

Met	Ala	Phe	Val	Thr	Ser	Gly	Glu	Leu	Val	Arg	His	Arg	Arg
			20					25					30

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<400> 56

Met Met Gln Met Phe Gly Leu Gly Ala Ile Ser Leu Ile Leu Val Val
1 5 10 15

Asn Ile Asp Tyr Leu Met Asn Arg Pro Gln Asn Leu Arg Leu
20 25 30

<210> 57
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<220>
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<400> 57

Ser Ser Tyr Phe Val Leu Ala Asn Gly His Ile Leu Pro Asn Ser Lys
1 5 10 15

Leu Gly Phe Ser Phe Val Arg Ile Thr Ala Leu Met Val Ser
20 25 30

<210> 58
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<212> PRT
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<220>
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<400> 58

Leu Glu Arg Leu Ala Tyr Leu His Ala Arg Leu Arg Glu Leu Leu Gln
1 5 10 15

Leu Glu Phe Met Phe Gln Glu Ala Leu Lys Leu Lys Val Ala
20 25 30

<210> 59
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<400> 59

Gly Asn Ile Leu Asp Ser Phe Thr Val Cys Asn Ser His Val Leu Leu
1 5 10 15

Gln Lys Tyr Ala Leu Gly Phe Gln His Ala Leu Ser Pro Ser
20 25 30

<210> 60
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<400> 60

Asn Met Ala Phe Val Thr Ser Gly Glu Leu Val Arg His Arg Arg Phe
1 5 10 15

Ser Ser Ser Gly Thr Thr Ser Phe Lys Cys Phe Ala Pro Phe
20 25 30

<210> 61
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<400> 61

Ala Gln Lys Met Ser Ser Leu Leu Pro Thr Met Trp Leu Gly Ala Met
1 5 10 15

Phe Thr Ser Ser Arg Met Ser Ser Phe Asn Arg His Met Lys
20 25 30

<210> 62
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<400> 62

Thr Ser His Ser Tyr Val Leu Val Thr Ser Leu Asn Leu Ser Tyr His
1 5 10 15

Ser Gln Thr Leu Lys Ala Met Val Gln Ala Trp Pro Phe Thr
20 25 30

<210> 63
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<400> 63

Met Ala Ser Phe Arg Lys Leu Thr Leu Ser Glu Lys Val Pro Pro Ser
1 5 10 15

Pro Thr Ala Met Asp Ala Ile Phe Gly Ser Leu Ser Asp Glu
20 25 30

<210> 64
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<400> 64

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

His Ser Gln Thr Leu Lys Ala Met Val Gln Ala Trp Pro Phe
20 25 30

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<400> 65

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

Gly Ala Val Met Ser Glu Arg Val Ser Gly Leu Ala Gly Ser
20 25 30

<210> 66

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<400> 66

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

Ser Ile Ser Val Tyr Tyr Thr Leu Trp Ser Gln Phe Asp Glu
20 25 30

<210> 67

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<400> 67

Ser Gly Ala Val Met Ser Glu Arg Val Ser Gly Leu Ala Gly Ser Ser
1 5 10 15

Arg Leu Leu Glu Phe Tyr Leu Ala Met Pro Phe Ala Thr Pro
20 25 30

<210> 68
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<400> 68

Met Ala Ser Phe Arg Lys Leu Thr Leu Ser Glu Lys Val Pro Pro Glu
1 5 10 15

Ser Phe Ser Pro Thr Ala Met Asp Ala Ile Phe Gly Ser Leu
20 25 30

<210> 69
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<400> 69

Phe Tyr Leu Ala Met Pro Phe Ala Thr Pro Met Glu Ala Glu Leu Lys
1 5 10 15

Pro Ser Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser Val

20

25

30

<210> 70
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<400> 70

Ala Met Asp Ala Ile Phe Gly Ser Leu Ser Asp Glu Gly Ser Gly His
1 5 10 15

Ser Gln Thr Leu Lys Ala Met Val Gln Ala Trp Pro Phe Thr
20 25 30

<210> 71
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<220>
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<400> 71

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

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

<210> 72
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<400> 72

Val Cys Ser Met Glu Gly Thr Trp Tyr Leu Val Gly Leu Val Ser Tyr

1 5 10 15

Arg Ser Cys Gly Phe Ser Tyr Glu Gln Asp Pro Thr Leu Arg
20 25 30

<210> 73
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<400> 73

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

Pro Ser Thr Thr Met Glu Thr Gln Phe Pro Val Ser Glu Gly
20 25 30

<210> 74
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<400> 74

Thr Ala Lys Lys Val Arg Arg Ala Ile Glu Gln Leu Ala Ala Met Met
1 5 10 15

Gly Ala Pro Thr Leu Pro Pro Ala Trp Gln Pro Phe Leu Lys
20 25 30

<210> 75
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<400> 75

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

Lys Ser Met Thr Met Met Pro Ala Leu Phe Lys Glu Asn Arg
20 25 30

<210> 76

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<223> colorectal vaccine pep 5

<400> 76

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

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

<210> 77

<211> 30

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<223> colorectal vaccine pep 6

<400> 77

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

Lys Lys Thr Met Ser Thr Phe His Asn Leu Val Ser Leu Asn
20 25 30

<210> 78

<211> 30

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<400> 78

Ala	Gln	Lys	Met	Ser	Ser	Leu	Leu	Pro	Thr	Met	Trp	Leu	Gly	Ala	Lys
1				5					10					15	

Val	Asn	Phe	Phe	Phe	Glu	Arg	Ile	Met	Lys	Tyr	Glu	Arg	Leu
			20					25					30

<210> 79

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<223> colorectal vaccine pep 8

<400> 79

Lys	Asp	His	Arg	Ile	Ser	Thr	Phe	Lys	Asn	Trp	Pro	Phe	Leu	Glu	Pro
1				5					10					15	

Glu	Glu	Ala	Ile	Trp	Glu	Ala	Leu	Ser	Val	Met	Gly	Leu	Tyr
			20					25					30

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<223> colorectal vaccine pep 9

<400> 80

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

Cys	Ser	Met	Glu	Gly	Thr	Trp	Tyr	Leu	Val	Gly	Leu	Val	Ser
			20					25					30

<210> 81
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<220>
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<400> 81

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

Ala Lys Lys Val Arg Arg Ala Ile Glu Gln Leu Ala Ala Met
20 25 30

<210> 82
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<223> colorectal vaccine pep 111

<400> 82

Leu Pro Ser Thr Thr Met Glu Thr Gln Phe Pro Val Ser Glu Gly Lys
1 5 10 15

Leu Gly Phe Ser Phe Val Arg Ile Thr Ala Leu Met Val Ser
20 25 30

<210> 83
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<400> 83

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

Glu Glu Ala Ile Trp Glu Ala Leu Ser Val Met Gly Leu Tyr
20 25 30

<210> 84
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<223> colorectal vaccine pep 13

<400> 84

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

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

<210> 85
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<223> colorectal vaccine pep 14

<400> 85

Pro Lys Ser Met Thr Met Met Pro Ala Leu Phe Lys Glu Asn Arg Leu
1 5 10 15

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

<210> 86
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<220>
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<400> 86

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

Val Asn Phe Phe Phe Glu Arg Ile Met Lys Tyr Glu Arg Leu
20 25 30

<210> 87
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<223> colorectal vaccine pep 16

<400> 87

Ala Gln Lys Met Ser Ser Leu Leu Pro Thr Met Trp Leu Gly Ala Phe
1 5 10 15

Lys Lys Thr Met Ser Thr Phe His Asn Leu Val Ser Leu Asn
20 25 30

<210> 88
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<400> 88

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

Cys Ser Met Glu Gly Thr Trp Tyr Leu Val Gly Leu Val Ser
20 25 30

<210> 89
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<223> colorectal vaccine pep 18

<400> 89

Pro Lys Ser Met Thr Met Met Pro Ala Leu Phe Lys Glu Asn Arg Gly
1 5 10 15

Asn Ile Leu Asp Ser Phe Thr Val Cys Asn Ser His Val Leu
20 25 30

<210> 90

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<223> colorectal vaccine pep 19

<400> 90

Pro Ser Thr Thr Met Glu Thr Gln Phe Pro Val Ser Glu Gly Lys Ser
1 5 10 15

Arg Tyr Arg Ala Gln Arg Phe Trp Ser Trp Val Gly Gln Ala
20 25 30

<210> 91

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> colorectal vaccine pep 20

<400> 91

Tyr Val Asp Glu Lys Ala Pro Glu Phe Ser Met Gln Gly Leu Lys Asp
1 5 10 15

Glu Lys Val Ala Glu Leu Val Arg Phe Leu Leu Arg Lys Tyr
20 25 30

<210> 92

<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> colorectal vaccine pep 21

<400> 92

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

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

<210> 93
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> colorectal vaccine pep 22

<400> 93

Ser Arg Ala Pro Glu Glu Ala Ile Trp Glu Ala Leu Ser Val Met Gln
1 5 10 15

Tyr Phe Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val Pro
20 25 30

<210> 94
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> colorectal vaccine pep 23

<400> 94

Pro Lys Ser Met Thr Met Met Pro Ala Leu Phe Lys Glu Asn Arg Ser
1 5 10 15

Gly Ala Val Met Ser Glu Arg Val Ser Gly Leu Ala Gly Ser

20

25

30

<210> 95
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> colorectal vaccine pep 24

<400> 95

Ser Gly Ala Val Met Ser Glu Arg Val Ser Gly Leu Ala Gly Ser Arg
1 5 10 15

Asn Ser Ile Arg Ser Ser Phe Ile Ser Ser Leu Ser Phe Phe
20 25 30

<210> 96
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> colorectal vaccine pep 25

<400> 96

Asn Ile Glu Asn Tyr Ser Thr Asn Ala Leu Ile Gln Pro Val Asp Glu
1 5 10 15

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

<210> 97
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> colorectal vaccine pep 26

<400> 97

Arg Gln Phe Glu Thr Val Cys Lys Phe His Trp Val Glu Ala Phe Lys

1 5 10 15

Leu Leu Thr Gln Tyr Phe Val Gln Glu Asn Tyr Leu Glu Tyr
20 25 30

<210> 98
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> colorectal vaccine pep 27

<400> 98

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

Leu Leu Thr Gln His Phe Val Gln Glu Asn Tyr Leu Glu Tyr
20 25 30

<210> 99
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> colorectal vaccine pep 28

<400> 99

Ala Ser Ser Ser Ser Thr Leu Ile Met Gly Thr Leu Glu Glu Val Gln
1 5 10 15

Thr Leu Ile Tyr Tyr Val Asp Glu Lys Ala Pro Glu Phe Ser
20 25 30

<210> 100
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> colorectal vaccine pep 29

<400> 100

Ser Arg Thr Leu Leu Leu Ala Leu Pro Leu Pro Leu Ser Leu Leu Ile
1 5 10 15

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

<210> 101

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> colorectal vaccine pep 30

<400> 101

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

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

<210> 102

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> colorectal vaccine pep 31

<400> 102

Leu Leu Ala Ala Ala Thr Ala Thr Phe Ala Ala Ala Gln Glu Glu Gln
1 5 10 15

Thr Leu Ile Tyr Tyr Val Asp Glu Lys Ala Pro Glu Phe Ser
20 25 30

<210> 103

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> additional peptide 1

<400> 103

Met	Met	Asn	Leu	Met	Gln	Pro	Lys	Thr	Gln	Gln	Thr	Tyr	Thr	Tyr	Asp
1				5					10					15	

<210> 104

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> additional peptide 2

<400> 104

Gly	Arg	Gly	Ser	Thr	Thr	Thr	Asn	Tyr	Leu	Leu	Asp	Arg	Asp	Asp	Tyr
1				5					10					15	

Arg	Asn	Thr	Ser	Asp
				20

<210> 105

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> additional peptide 3

<400> 105

Leu	Lys	Lys	Gly	Ala	Ala	Asp	Gly	Gly	Lys	Leu	Asp	Gly	Asn	Ala	Lys
1				5					10					15	

Leu	Asn	Arg	Ser	Leu	Lys
					20

<210> 106

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> additional peptide 4

<400> 106

Phe Pro Pro Lys Asp Asp His Thr Leu Lys Phe Leu Tyr Asp Asp Asn
1 5 10 15

Gln Arg Pro Tyr Pro Pro
20

<210> 107

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> additional peptide 5

<400> 107

Arg Tyr Arg Lys Pro Asp Tyr Thr Leu Asp Asp Gly His Gly Leu Leu
1 5 10 15

Arg Phe Lys Ser Thr
20

<210> 108

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> additional peptide 6

<400> 108

Gln Arg Pro Pro Phe Ser Gln Leu His Arg Phe Leu Ala Asp Ala Leu
1 5 10 15

Asn Thr

<210> 109
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> additional peptide 7

<400> 109

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

Asp	Gln	Thr	Ser	Cys	Phe	Ser	Ser	Pro
			20					25

<210> 110
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> additional peptide 8

<400> 110

Ser	Thr	Ala	Pro	Pro	Ala	His	Gly	Val	Thr	Ser	Ala	Pro	Asp	Thr	Arg
1				5					10					15	

Pro	Ala	Pro	Gly	Ser	Thr	Ala	Pro	Pro
			20					25

<210> 111
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> additional peptide 9

<400> 111

Tyr	Leu	Glu	Pro	Gly	Pro	Val	Thr	Ala
1				5				

<210> 112
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> additional peptide 10

<400> 112

Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Thr
1 5 10 15

Val Leu Thr Val Val
20

<210> 113
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> additional peptide 11

<400> 113

Ser Ser Lys Ala Leu Gln Arg Pro Val
1 5

<210> 114
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> additional peptide 12

<400> 114

Arg Met Phe Pro Asn Ala Pro Tyr Leu
1 5

<210> 115
<211> 9
<212> PRT

<213> Artificial Sequence

<220>

<223> additional peptide 13

<400> 115

Arg Met Phe Pro Asn Ala Pro Tyr Leu
1 5

<210> 116

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> XYZ 1

<400> 116

Asn Ser Leu Gln Lys Gln Leu Gln Ala Val Leu Gln Trp Ile Ala Ala
1 5 10 15

Ser Gln Phe Asn
20

<210> 117

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> XYZ 2

<400> 117

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

Asn Val Glu Glu
20

<210> 118

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> XYZ 3

<400> 118

Val	Gln	Lys	Glu	Asp	Gly	Arg	Val	Gln	Ala	Phe	Gly	Trp	Ser	Leu	Pro
1				5					10					15	

Gln	Lys	Tyr	Lys
			20

<210> 119

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> XYZ 4

<400> 119

Glu	Val	Glu	Ser	Thr	Pro	Met	Ile	Met	Glu	Asn	Ile	Gln	Glu	Leu	Ile
1				5					10					15	

Arg	Ser	Ala	Gln
			20

<210> 120

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> XYZ 5

<400> 120

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

Pro	Ala	Glu	Trp
			20

<210> 121
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> XYZ 6

<400> 121

Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro
1 5 10 15

Tyr Leu Pro Ser
20

<210> 122
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> XYZ 7

<400> 122

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

Arg Trp Phe Ser
20

<210> 123
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> XYZ 8

<400> 123

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

Glu Asp Leu Glu
20

<210> 124
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> XYZ 9

<400> 124

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

Lys Ile Gln Val
20

<210> 125
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> XYZ 10

<400> 125

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

Arg Lys Tyr Arg
20

<210> 126
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> XYZ 11

<400> 126

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

Arg Glu Pro Ile
20

<210> 127
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> XYZ 12

<400> 127

Asp Val Lys Glu Val Asp Pro Thr Gly His Ser Phe Val Leu Val Thr
1 5 10 15

Ser Leu Gly Leu
20

<210> 128
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> XYZ 13

<400> 128

Ser Ala Gln Leu Leu Gln Ala Arg Leu Met Lys Glu Glu Ser Pro Val
1 5 10 15

Val Ser Trp Arg
20

<210> 129
<211> 20
<212> PRT
<213> Artificial Sequence

<220>

<223> ABC 1

<400> 129

Ile	Ser	Asp	Thr	Lys	Asp	Tyr	Phe	Met	Ser	Lys	Thr	Leu	Gly	Ile	Gly
1				5					10					15	

Arg	Leu	Lys	Arg
			20

<210> 130

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> ABC 2

<400> 130

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

Ser	Gly	Leu	Ile
			20

<210> 131

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> ABC 3

<400> 131

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

Leu	Leu	Asn	Glu
			20

<210> 132

<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> ABC 4

<400> 132

Ser Ala Val Phe His Glu Arg Tyr Ala Leu Ile Gln His Gln Lys Thr
1 5 10 15

His Lys Asn Glu
20

<210> 133
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> ABC 5

<400> 133

Asp Val Lys Glu Val Asp Pro Thr Ser His Ser Tyr Val Leu Val Thr
1 5 10 15

Ser Leu Asn Leu
20

<210> 134
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> ABC 6

<400> 134

Glu Asn Ala His Gly Gln Ser Leu Glu Glu Asp Ser Ala Leu Glu Ala
1 5 10 15

Leu Leu Asn Phe

20

<210> 135
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> ABC 7

<400> 135

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

His Pro Ser Arg
20

<210> 136
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> ABC 8

<400> 136

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

Asn Thr Met Leu
20

<210> 137
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> ABC 9

<400> 137

Val Asp Pro Ala Gln Leu Glu Phe Met Phe Gln Glu Ala Leu Lys Leu

1 5 10 15

Lys Val Ala Glu
20

<210> 138
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> ABC 10

<400> 138

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

Asn Ile Glu Lys
20

<210> 139
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> ABC 11

<400> 139

Pro Glu Ile Phe Gly Lys Ala Ser Glu Ser Leu Gln Leu Val Phe Gly
1 5 10 15

Ile Asp Val Lys
20

<210> 140
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> ABC 12

<400> 140

Asp Ser Glu Ser Ser Phe Thr Tyr Thr Leu Asp Glu Lys Val Ala Glu
1 5 10 15

Leu Val Glu Phe
20

<210> 141

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P1 1

<400> 141

Gln Phe Pro Val Ser Glu Gly Lys Ser
1 5

<210> 142

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P1 2

<400> 142

Phe Pro Val Ser Glu Gly Lys Ser Arg
1 5

<210> 143

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P1 3

<400> 143

Pro Val Ser Glu Gly Lys Ser Arg Tyr

1 5

<210> 144
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P1 4

<400> 144

Val Ser Glu Gly Lys Ser Arg Tyr Arg
1 5

<210> 145
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P1 5

<400> 145

Ser Glu Gly Lys Ser Arg Tyr Arg Ala
1 5

<210> 146
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P1 6

<400> 146

Glu Gly Lys Ser Arg Tyr Arg Ala Gln
1 5

<210> 147
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> CRC-P1 7

<400> 147

Gly Lys Ser Arg Tyr Arg Ala Gln Arg
1 5

<210> 148

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P1 8

<400> 148

Lys Ser Arg Tyr Arg Ala Gln Arg Phe
1 5

<210> 149

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P2 1

<400> 149

Ile Glu Leu Lys His Lys Ala Arg Thr
1 5

<210> 150

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P2 2

<400> 150

Glu Leu Lys His Lys Ala Arg Thr Ala
1 5

<210> 151
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P2 3

<400> 151

Leu Lys His Lys Ala Arg Thr Ala Lys
1 5

<210> 152
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P2 4

<400> 152

Lys His Lys Ala Arg Thr Ala Lys Lys
1 5

<210> 153
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P2 5

<400> 153

His Lys Ala Arg Thr Ala Lys Lys Val
1 5

<210> 154
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P2 6

<400> 154

Lys Ala Arg Thr Ala Lys Lys Val Arg
1 5

<210> 155

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P2 7

<400> 155

Ala Arg Thr Ala Lys Lys Val Arg Arg
1 5

<210> 156

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P2 8

<400> 156

Arg Thr Ala Lys Lys Val Arg Arg Ala
1 5

<210> 157

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P3 1

<400> 157

Glu Phe Ser Met Gln Gly Leu Lys Asp
1 5

<210> 158

<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P3 2

<400> 158

Phe Ser Met Gln Gly Leu Lys Asp Glu
1 5

<210> 159
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> SMQGLKDEK

<400> 159

Ser Met Gln Gly Leu Lys Asp Glu Lys
1 5

<210> 160
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P3 4

<400> 160

Met Gln Gly Leu Lys Asp Glu Lys Val
1 5

<210> 161
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P3 5

<400> 161

Gln Gly Leu Lys Asp Glu Lys Val Ala
1 5

<210> 162
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P3 6

<400> 162

Gly Leu Lys Asp Glu Lys Val Ala Glu
1 5

<210> 163
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P3 7

<400> 163

Leu Lys Asp Glu Lys Val Ala Glu Leu
1 5

<210> 164
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P3 8

<400> 164

Lys Asp Glu Lys Val Ala Glu Leu Val
1 5

<210> 165
<211> 9
<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P6 1

<400> 165

Leu Leu Ala Leu Met Val Gly Leu Lys
1 5

<210> 166

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P6 2

<400> 166

Leu Ala Leu Met Val Gly Leu Lys Asp
1 5

<210> 167

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P6 3

<400> 167

Ala Leu Met Val Gly Leu Lys Asp His
1 5

<210> 168

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P6 4

<400> 168

Leu Met Val Gly Leu Lys Asp His Arg

1 5

<210> 169
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P6 5

<400> 169

Met Val Gly Leu Lys Asp His Arg Ile
1 5

<210> 170
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P6 6

<400> 170

Val Gly Leu Lys Asp His Arg Ile Ser
1 5

<210> 171
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P6 7

<400> 171

Gly Leu Lys Asp His Arg Ile Ser Thr
1 5

<210> 172
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> CRC-P6 8

<400> 172

Leu Lys Asp His Arg Ile Ser Thr Phe
1 5

<210> 173

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P7 1

<400> 173

Pro Ala Leu Phe Lys Glu Asn Arg Ser
1 5

<210> 174

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P7 2

<400> 174

Ala Leu Phe Lys Glu Asn Arg Ser Gly
1 5

<210> 175

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P7 3

<400> 175

Leu Phe Lys Glu Asn Arg Ser Gly Ala
1 5

<210> 176
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P7 4

<400> 176

Phe Lys Glu Asn Arg Ser Gly Ala Val
1 5

<210> 177
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P7 5

<400> 177

Lys Glu Asn Arg Ser Gly Ala Val Met
1 5

<210> 178
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P7 6

<400> 178

Glu Asn Arg Ser Gly Ala Val Met Ser
1 5

<210> 179
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P7 7

<400> 179

Asn Arg Ser Gly Ala Val Met Ser Glu
1 5

<210> 180

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P7 8

<400> 180

Arg Ser Gly Ala Val Met Ser Glu Arg
1 5

<210> 181

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P8 1

<400> 181

Ala Val Leu Thr Lys Lys Phe Gln Lys
1 5

<210> 182

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> CRC-P8 2

<400> 182

Val Leu Thr Lys Lys Phe Gln Lys Val
1 5

<210> 183

<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P8 3

<400> 183

Leu Thr Lys Lys Phe Gln Lys Val Asn
1 5

<210> 184
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P8 4

<400> 184

Thr Lys Lys Phe Gln Lys Val Asn Phe
1 5

<210> 185
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P8 5

<400> 185

Lys Lys Phe Gln Lys Val Asn Phe Phe
1 5

<210> 186
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P8 6

<400> 186

Lys Phe Gln Lys Val Asn Phe Phe Phe
1 5

<210> 187
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P8 7

<400> 187

Phe Gln Lys Val Asn Phe Phe Phe Glu
1 5

<210> 188
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CRC-P8 8

<400> 188

Gln Lys Val Asn Phe Phe Phe Glu Arg
1 5