

SEQUENCE LISTING

<110> BioModifying, LLC

<120> Anti MUC1-SEA antibodies

<130> 300242

<150> US62/991077

<151> 2020-03-18

<160> 60

<170> PatentIn version 3.5

<210> 1

<211> 420

<212> DNA

<213> Mus musculus

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actgtcactg gccactccat caccagaggt tctagctggc actggatccg gcagtttcca 180

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ttgaattctg tgactactga ggacacagcc acatttttct gtgcacggta ttcttacgat 360

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ttctcctgca gggccagtca gaacattggc acaagcatat actggtatca gcaaagaaaa 180

aatggttctc caagacttct cataaagtat gcttctgagt ctatctctgg gattccttcc 240

aggtttagtg gcagcggatc tgggacagat tttactcttt ccatcaacag tgtggagtct 300

gaagatatgg cagattatta ctgtcaacaa aataataact ggccgctcac gttcgggtgct 360

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cagctcagca gcctaacatc tgaggactct gggatttact tctgtgcaag aggatacaag 360
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cagaagttca agggcaaggc cacatttact gtagacaggt catccagcac tgcctacatg	300
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<212> DNA
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<212> DNA
<213> mus Musculus

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agagtggagg ctgaggatct gggagtttat ttctgctctc aaagtacaca tgttccgtac	360
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<213> mus Musculus

<400> 13

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Leu Ser Asp Val Gln Val Gln Glu Ser Gly Pro Asp Leu Val Lys Pro
20 25 30

Ser Gln Ser Leu Ser Leu Thr Cys Thr Val Thr Gly His Ser Ile Thr
35 40 45

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

Glu Trp Met Gly Tyr Ile His Tyr Gly Gly Gly Thr Ser Tyr Asn Pro
65 70 75 80

Ser Leu Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln
85 90 95

Phe Phe Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Phe
100 105 110

Phe Cys Ala Arg Tyr Ser Tyr Asp Ile Thr Tyr Arg Trp Phe Phe Asp
115 120 125

Val Trp Gly Ala Gly Thr Thr Val Ile Val Ser Ser
130 135 140

<210> 14

<211> 127

<212> PRT

<213> mus Musculus

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20 25 30

Val Ser Pro Gly Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Asn
35 40 45

Ile Gly Thr Ser Ile His Trp Tyr Gln Gln Arg Lys Asn Gly Ser Pro
50 55 60

Arg Leu Leu Ile Lys Tyr Ala Ser Glu Ser Ile Ser Gly Ile Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn
85 90 95

Ser Val Glu Ser Glu Asp Met Ala Asp Tyr Tyr Cys Gln Gln Asn Asn
100 105 110

Asn Trp Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
115 120 125

<210> 15
<211> 136
<212> PRT
<213> mus Musculus

<400> 15

Met Glu Trp Pro Cys Ile Phe Leu Phe Leu Leu Ser Val Thr Glu Gly
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Val His Ser Gln Val His Leu Gln Gln Ser Gly Ala Glu Leu Val Arg
20 25 30

Pro Gly Ser Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Glu Phe
35 40 45

Asn Ser Phe Trp Met Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu
50 55 60

Glu Trp Ile Gly Gln Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn
65 70 75 80

Gly Lys Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser
85 90 95

Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Gly Ile
100 105 110

Tyr Phe Cys Ala Arg Gly Tyr Lys Ala Trp Phe Ile Tyr Trp Gly Gln
115 120 125

Gly Thr Leu Val Thr Val Ser Glu
130 135

<210> 16
<211> 127
<212> PRT
<213> mus Musculus

<400> 16

Met Val Ser Thr Pro Gln Phe Leu Val Phe Leu Leu Phe Trp Ile Pro
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Ala Ser Arg Gly Asp Val Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser
20 25 30

Val Ser Pro Gly Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Asn
35 40 45

Ile Gly Thr Ser Ile His Trp Tyr Gln Gln Ser Thr Asn Gly Ser Pro
50 55 60

Arg Leu Ile Ile Lys Tyr Ala Ser Glu Ser Leu Ser Gly Ile Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn
85 90 95

Ser Val Glu Ser Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser Asn
100 105 110

Gly Trp Pro Leu Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys
115 120 125

<210> 17

<211> 135
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<213> mus Musculus

<400> 17

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

Pro Lys Thr Ser Met Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe
35 40 45

Thr Asp Phe Thr Met Asn Trp Val Lys Gln Ser His Gly Lys Asn Pro
50 55 60

Glu Trp Ile Gly Leu Ile Thr Pro Tyr Asn Gly Gly Thr Ser Tyr Asn
65 70 75 80

Gln Lys Phe Lys Gly Lys Ala Thr Phe Thr Val Asp Arg Ser Ser Ser
85 90 95

Thr Ala Tyr Met Glu Leu Leu Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr Tyr Cys Ala Arg Gly Leu Thr Tyr Phe Asp Gln Trp Gly Gln Gly
115 120 125

Thr Thr Leu Thr Val Ser Ser
130 135

<210> 18
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<212> PRT
<213> mus musculus

<400> 18

Met Asp Phe Gln Val Gln Ile Phe Ser Phe Leu Leu Met Ser Ala Ser
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Val Ile Met Ser Arg Gly Gln Ile Val Leu Thr Gln Ser Pro Ala Leu

20

25

30

Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser
 35 40 45

Ser Ser Val Ser Tyr Met Tyr Trp Tyr Gln Gln Lys Pro Thr Ser Ser
 50 55 60

Pro Lys Pro Trp Ile Leu Leu Thr Ser Asn Leu Ala Ser Gly Val Pro
 65 70 75 80

Thr Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile
 85 90 95

Ser Ser Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp
 100 105 110

Asn Ser Lys Pro Pro Ile Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 115 120 125

Lys

<210> 19
 <211> 135
 <212> PRT
 <213> mus Musculus

<400> 19

Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly
 1 5 10 15

Val Leu Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys
 20 25 30

Pro Lys Thr Ser Met Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe
 35 40 45

Thr Asp Phe Thr Met Asn Trp Val Lys Gln Ser His Gly Lys Asn Pro
 50 55 60

Glu Trp Ile Gly Leu Ile Thr Pro Tyr Asn Gly Gly Thr Ser Tyr Asn
65 70 75 80

Gln Lys Phe Lys Gly Lys Ala Thr Phe Thr Val Asp Arg Ser Ser Ser
85 90 95

Thr Ala Tyr Met Glu Leu Leu Ser Leu Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr Tyr Cys Ala Arg Gly Leu Thr Tyr Phe Asp Gln Trp Gly Gln Gly
115 120 125

Thr Thr Leu Thr Val Ser Ser
130 135

<210> 20
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<212> PRT
<213> mus Musculus

<400> 20

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

Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser
35 40 45

Ser Ser Val Ser Tyr Met Tyr Trp Tyr Gln Gln Lys Pro Thr Ser Ser
50 55 60

Pro Lys Pro Trp Ile Leu Leu Thr Ser Asn Leu Ala Ser Gly Val Pro
65 70 75 80

Thr Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile
85 90 95

Ser Ser Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp
100 105 110

Asn Ser Lys Pro Pro Ile Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
115 120 125

Lys

<210> 21
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<212> PRT
<213> mus Musculus

<400> 21

Met Ala Val Leu Gly Leu Leu Leu Cys Leu Val Thr Phe Pro Ser Cys
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Val Leu Ser Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala
20 25 30

Pro Ser Gln Asn Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu
35 40 45

Thr Asp Tyr Gly Val Asn Trp Val Arg Gln Pro Ser Gly Lys Gly Leu
50 55 60

Glu Trp Leu Gly Glu Ile Trp Ala Gly Gly Thr Thr Phe Tyr Asn Ser
65 70 75 80

Ala Leu Lys Ser Arg Leu Thr Ile Thr Lys Asp Asn Ser Lys Ser Gln
85 90 95

Val Phe Leu Glu Met Asn Ser Leu Gln Ser His Asp Thr Ala Met Tyr
100 105 110

Tyr Cys Ala Lys Arg Leu Asn Trp Asp Ser Ser Met Asp Tyr Trp Gly
115 120 125

Gln Gly Thr Ser Val Thr Val Ser Ser
130 135

<210> 22
<211> 131

<212> PRT
<213> mus Musculus

<400> 22

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

Val Ser Leu Gly Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Glu Ser
35 40 45

Val Ser Thr Ser Ala Tyr Asn Phe Leu His Trp Tyr Gln Gln Lys Pro
50 55 60

Gly Gln Pro Pro Lys Leu Leu Ile Tyr Leu Ala Ser Asn Leu Glu Ser
65 70 75 80

Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
85 90 95

Leu Asn Ile His Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys
100 105 110

Gln His Ser Arg Glu Leu Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
115 120 125

Glu Ile Lys
130

<210> 23
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<213> mus Musculus

<400> 23

Met Arg Val Leu Ile Leu Leu Trp Leu Phe Thr Ala Phe Pro Gly Ile
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Leu Ser Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro
20 25 30

Ser Gln Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr
35 40 45

Ser Asp Tyr Ala Trp Asn Trp Ile Arg His Phe Pro Gly Asn Lys Leu
50 55 60

Glu Trp Met Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr Asn Pro
65 70 75 80

Ser Leu Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln
85 90 95

Phe Phe Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr
100 105 110

Tyr Cys Ala Arg Asp Gly Tyr Tyr Thr Phe Ala Phe Trp Gly Gln Gly
115 120 125

Thr Leu Val Thr Val Ser Ala
130 135

<210> 24
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<212> PRT
<213> mus Musculus

<400> 24

Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala
1 5 10 15

Ser Ser Ser Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val
20 25 30

Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu
35 40 45

Val His Ser Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro
50 55 60

Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser

65		70		75		80									
Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr
				85					90					95	

Leu	Lys	Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Leu	Gly	Val	Tyr	Phe	Cys
			100					105					110		

Ser	Gln	Ser	Thr	His	Val	Pro	Tyr	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu
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Glu	Ile	Lys
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<400> 25

Arg	Gly	Ser	Ser	Trp	His
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 <213> mus Musculus

<400> 26

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 <213> mus Musculus

<400> 27

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<210> 28
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<212> PRT
<213> mus Musculus

<400> 28

Arg Ala Ser Gln Asn Ile Gly Thr Ser Ile His
1 5 10

<210> 29
<211> 7
<212> PRT
<213> mus Musculus

<400> 29

Tyr Ala Ser Glu Ser Ile Ser
1 5

<210> 30
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<213> mus Musculus

<400> 30

Gln Gln Asn Asn Asn Trp Pro Leu Thr
1 5

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<400> 31

Ser Phe Trp Met Asn
1 5

<210> 32
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<400> 32

Gln Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe Lys
1 5 10 15

Gly

<210> 33
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<400> 33

Gly Tyr Lys Ala Trp Phe Ile Tyr
1 5

<210> 34
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<400> 34

Arg Ala Ser Gln Asn Ile Gly Thr Ser Ile His
1 5 10

<210> 35
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<400> 35

Tyr Ala Ser Glu Ser Leu Ser
1 5

<210> 36
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<400> 36

Gln Gln Ser Asn Gly Trp Pro Leu Thr
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<400> 37

Asp Phe Thr Met Asn
1 5

<210> 38
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<400> 38

Leu Ile Thr Pro Tyr Asn Gly Gly Thr Ser Tyr Asn Gln Lys Phe Lys
1 5 10 15

Gly

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<400> 39

Gly Leu Thr Tyr Phe Asp Gln
1 5

<210> 40
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<400> 40

Ser Ala Ser Ser Ser Val Ser Tyr Met Tyr
1 5 10

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Leu Thr Ser Asn Leu Ala Ser
1 5

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Gln Gln Trp Asn Ser Lys Pro Pro Ile Thr
1 5 10

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Asp Phe Thr Met Asn
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Gly

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<212> PRT
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<400> 45

Gly Leu Thr Tyr Phe Asp Gln
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Ser Ala Ser Ser Ser Val Ser Tyr Met Tyr

1 5 10

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Gln Gln Trp Asn Ser Lys Pro Pro Ile Thr
1 5 10

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<400> 49

Asp Tyr Gly Val Asn
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<210> 50
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Glu Ile Trp Ala Gly Gly Thr Thr Phe Tyr Asn Ser Ala Leu Lys Ser
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<400> 51

Arg Leu Asn Trp Asp Ser Ser Met Asp Tyr
1 5 10

<210> 52
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<400> 52

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

<210> 53
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