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SEQUENCE LISTING

<110> GENENTECH, INC. ET AL.

<120> METHODS FOR DIAGNOSING AND TREATING INFLAMMATORY BOWEL DISEASE

<130> P4989R1-WO

<140>

<141>

<150> 61/860,422

<151> 2013-07-31

<150> 61/710,656

<151> 2012-10-05

<160> 31

<170> PatentIn version 3.5

<210> 1

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1

Arg Ala Ser Glu Ser Val Asp Thr Tyr Leu His
1 5 10

<210> 2

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 2

Lys Tyr Ala Ser Gln Ser Ile Ser
1 5

<210> 3

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 3

Gln Gln Gly Asn Ser Leu Pro Asn Thr
1 5

<210> 4

<211> 10

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 4
Gly Phe Phe Ile Thr Asn Asn Tyr Trp Gly
1 5 10

<210> 5
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 5
Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr Asn Pro Ser Leu Lys
1 5 10 15

Ser

<210> 6
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 6
Met Thr Gly Ser Ser Gly Tyr Phe Asp Phe
1 5 10

<210> 7
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 7
Arg Ala Ser Glu Ser Val Asp Ser Leu Leu His
1 5 10

<210> 8
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 8
Arg Ala Ser Glu Ser Val Asp Thr Leu Leu His
1 5 10

<210> 9
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 9
 Arg Ala Ser Glu Ser Val Asp Asp Leu Leu His
 1 5 10

<210> 10
 <211> 108
 <212> PRT
 <213> Rattus sp.

<400> 10
 Asp Val Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Thr Pro Gly
 1 5 10 15

Glu Arg Ile Ser Leu Ser Cys Arg Ala Ser Glu Ser Val Asp Thr Tyr
 20 25 30

Leu His Trp Tyr Gln Gln Lys Pro Asn Glu Ser Pro Arg Leu Leu Ile
 35 40 45

Lys Tyr Ala Ser Gln Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Gly Val Glu Leu
 65 70 75 80

Glu Asp Leu Ser Ile Tyr Tyr Cys Gln Gln Gly Asn Ser Leu Pro Asn
 85 90 95

Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg
 100 105

<210> 11
 <211> 117
 <212> PRT
 <213> Rattus sp.

<400> 11
 Glu Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15

Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Phe Phe Ile Thr Asn Asn
 20 25 30

Tyr Trp Gly Trp Ile Arg Lys Phe Pro Gly Asn Lys Met Glu Trp Met
 35 40 45

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

50

55

Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Phe Phe Leu
65 70 75 80

Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys Ala
85 90 95

Met Thr Gly Ser Ser Gly Tyr Phe Asp Phe Trp Gly Pro Gly Thr Met
100 105 110

Val Thr Val Ser Ser
115

<210> 12
<211> 108
<212> PRT
<213> Homo sapiens

<400> 12
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asn Tyr
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Leu Pro Trp
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 13
<211> 113
<212> PRT
<213> Homo sapiens

<400> 13
Glu Val Gln Leu Val 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 Ser Tyr
20 25 30

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

35

40

45

Ser Val Ile Ser Gly Asp Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser 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 Arg Gly Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser

<210> 14

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 14

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Ser Val Asp Thr Tyr
 20 25 30

Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

Lys Tyr Ala Ser Gln Ser Ile Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Ser Leu Pro Asn
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105

<210> 15

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

polypeptide

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

<210> 16
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 16
 Ala Met Thr Gly Ser Ser Gly Tyr Phe Asp Phe
 1 5 10

<210> 17
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 17
 Ala Arg Thr Gly Ser Ser Gly Tyr Phe Asp Phe
 1 5 10

<210> 18
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 18

Ala Gln Thr Gly Ser Ser Gly Tyr Phe Asp Phe
1 5 10

<210> 19

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 19

Arg Thr Gly Ser Ser Gly Tyr Phe Asp Phe
1 5 10

<210> 20

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 20

Arg Tyr Ala Ser Gln Ser Ile Ser
1 5

<210> 21

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Any amino acid

<400> 21

Xaa Tyr Ala Ser Gln Ser Ile Ser
1 5

<210> 22

<211> 108

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 22

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

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

<210> 23
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polypeptide

<400> 23
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Ser Val Asp Thr Leu
 20 25 30
 Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Lys Tyr Ala Ser Gln Ser Ile Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Ser Leu Pro Asn
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105

<210> 24
 <211> 108
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 24

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Ser Val Asp Asp Leu
20 25 30

Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45

Lys Tyr Ala Ser Gln Ser Ile Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Ser Leu Pro Asn
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 25

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 25

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

Tyr Trp Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr Asn Pro Ser Leu Lys
50 55 60

Ser Arg Phe Thr Ile Ser Arg Asp Thr Ser Lys Asn Thr Phe Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95

Met Thr Gly Ser Ser Gly Tyr Phe Asp Phe Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 26
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Ala, Gly, Ser, Thr or Val

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Ser, Gly, Ile, Lys, Asn, Pro, Gln, Arg or Thr

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Glu, Val, Gln, Ala, Asp, Gly, His, Ile, Lys, Leu, Asn or Arg

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Ser, Tyr, Ala, Asp, Gly, His, Ile, Lys, Asn, Pro, Arg, Thr or Val

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Val, Arg, Ile, Ala, Gly, Lys, Leu, Met or Gln

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Asp, Val, Ser, Ala, Glu, Gly, His, Ile, Lys, Leu, Asn, Pro, Ser or Thr

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Asp, Gly, Asn, Glu, Thr, Pro or Ser

<220>
<221> MOD_RES
<222> (9)..(9)
<223> Leu, Tyr, Ile or Met

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Leu, Ala, Ile, Met or Val

<220>

<221> MOD_RES
 <222> (11)..(11)
 <223> His, Tyr, Phe or Ser

<400> 26
 Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

<210> 27
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Any amino acid

<220>
 <221> MOD_RES
 <222> (4)..(4)
 <223> Ser or Asp

<220>
 <221> MOD_RES
 <222> (5)..(5)
 <223> Gln or Ser

<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> Ser, Asp, Leu or Arg

<220>
 <221> MOD_RES
 <222> (7)..(7)
 <223> Ile, Val, Glu or Lys

<220>
 <223> see specification as filed for detailed description of substitutions and certain embodiments

<400> 27
 Xaa Tyr Ala Xaa Xaa Xaa Xaa Ser
 1 5

<210> 28
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<220>
 <221> MOD_RES
 <222> (8)..(8)
 <223> Asn, Val, Trp, Tyr, Arg, Ser, Thr, Ala, Phe, His, Ile, Leu or Met

<400> 28
Gln Gln Gly Asn Ser Leu Pro Xaa Thr
1 5

<210> 29
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Tyr, Phe, Val or Asp

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Ser or Gly

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Ser or Tyr

<220>
<221> MOD_RES
<222> (12)..(12)
<223> Asn, Thr, Ala or Asp

<220>
<221> MOD_RES
<222> (13)..(13)
<223> Pro, His, Asp or Ala

<220>
<221> MOD_RES
<222> (15)..(15)
<223> Leu or Val

<220>
<221> MOD_RES
<222> (17)..(17)
<223> Ser or Gly

<400> 29
Gly Xaa Ile Ser Tyr Xaa Gly Ser Thr Xaa Tyr Xaa Xaa Ser Xaa Lys
1 5 10 15

Xaa

<210> 30
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> May or may not be present

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Arg, Met, Ala, Glu, Gly, Gln or Ser

<220>
 <221> MOD_RES
 <222> (11)..(11)
 <223> Phe or Tyr

<400> 30
 Ala Xaa Thr Gly Ser Ser Gly Tyr Phe Asp Xaa
 1 5 10

<210> 31
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 31
 Glu Val Gln Leu Val 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 Phe Ile Thr Asn Asn
 20 25 30

Tyr Trp Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr Asn Pro Ser Leu Lys
 50 55 60

Ser Arg Phe Thr Ile Ser Arg Asp Thr Ser Lys Asn Thr Phe Tyr Leu
 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 85 90 95

Arg Thr Gly Ser Ser Gly Tyr Phe Asp Phe Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser
 115