FIGURE 1

>DOM23h-33 (SEQ ID NO: 1)

EVQLLESGGGLVQPGGSLRLSCAASGFTFSQYRMWWVRQAPGKGLEWVSA
IAPSGDNTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKHRT
SFDYWGQGTLVTVSS

>DOM23h-251 (SEQ ID NO: 2)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSDYDMWWVRQAPGKGLEWVSK
ITQKGDFTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKDAT
HFDYWGQGTLVTVSS

>DOM23h-262 (SEQ ID NO: 3)
EVQLLESGGGLVQPGGSLRLSCAASGFTFFNYEMAWARQAPGKGLEWVSLI
SAEGTRTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKRRD
ASMGHTTRRFDYWGQGTLVTVSS

>DOM23h-271 (SEQ ID NO: 4)
EVQLLESGGGLVQPGGSLRLSCAASGFTFTEYRMWWVRQAPGKGLEWVSS
IEPIGNRTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKQIPG
HKWTANSRFDYWGQGTLVTVSS

>DOM23h-348 (SEQ ID NO: 5)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSDYDMAWARQAPGKGLEWVSR
ISHSGYSTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKRSW
DGVHAQFDYWGQGTLVTVSS

>DOM23h-435 (SEQ ID NO: 6)
EVQLLESGGGLVQPGGSLRLTCAASGFTFTDDRMWWVRQAPGKGLEWVS
AIDPQGQHTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKH
NSSFDYWGQGTLVTVSS

>DOM23h-436 (SEQ ID NO: 7)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSDYKMGWVRQAPGKGLEWVSSI
WPNGGLTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKDH
MGFDYWGQGTLVTVSS

>DOM23h-437 (SEQ ID NO: 8)
EVQLLESGGGLVQPGGSLRLSCAASGFTFSDYRMWWVRQAPGKGLEWVSA
IDSQGHTTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKYGG
YFDYWGQGTLVTVSS

>DOM23h-438 (SEQ ID NO: 9)
EVQLLESGGGLVQPGGSLRLSCAASGFTFAQGDMWWVRQAPGKGLEWVS
RIGMDGDKTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKG
PSSTSPFDYWGQGTLVTVSS

FIGURE 1 (continued)

>DOM23h-439 (SEQ ID NO: 10)
EVQLLESGGGLVQPGGSLRLSCAASGFTFGTEQMWWVRQAPGKGLEWVSR
IDSPGGRTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKRHA
AGVSGTYFDYWGQGTLVTVSS

>DOM23h-440 (SEQ ID NO: 11)
EVQLLESGGGLVQPGGSLRLSCAASGFTFTDDRMWWVRQAPGKGLEWVSA
IDPQGQHTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKELL
SFDYWGQGTLVTVSS

>DOM23h-262-6 (SEQ ID NO: 12)
EVQLLESGGGLVQPGGSLRLSCAASGFTFFNYEMAWARQAPGKGLEWVSLI
SAEGTRTYYANSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKRRD
ASMGHTTRRFDHWGQGTLVTVSS

>DOM23h-262-10 (SEQ ID NO: 13)
EVQLLESGGGLVQPGGSLRLSCAASGFTFFNYEMAWARRAPGKGLEWVSLI
SADGTRTYYANSVRGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKRRD
ASMGHTTRRFDYSGQGTLVTVSS

>DOM23h-271-3 (SEQ ID NO: 14)
EVQLLESGGGLVQPGGSLRLSCTASGFTFTEYRMWWVRQAPGKGLEWVSLI
EPIGNRTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKQIPG
HMWTANPRSDYWGQGTQVTVSS

>DOM23h-271-7 (SEQ ID NO: 15)
EVQLLESGGGLVQPGGSLRLSCAASGFTFTEYRMWWVRQAPGKGLEWVSA
IEPIGNRTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKQIPG
RKWTANSRFDYWGQGTLVTVSS

>DOM23h-271-12 (SEQ ID NO: 16)
EVQLLESGGGLVQPGGSLRLSCTASGFTFTEYRMWWVRQAPGKGLEWVSLI
EPIGNRTYYANSVRGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKQIPG
HMWTANPRSDYWGQGTQVTVSS

>DOM23h-271-13 (SEQ ID NO: 17)
EVQLLESGGGLVQPGGSLRLSCAASGFTFTEYRMWWVRQAPGKGLEWVSA
IEPIGNRTYYANSVRGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKQIPG
RKWTANSRFDYWGQGTLVTVSS

>DOM23h-437-4 (SEQ ID NO: 18)
EVQLLESGGGLVQPGGSLRLSCAASGFTISDYRMWWVRQAPGKGLEWVSA
IDSQGHTTYYADSVRGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKYGG
YFDYWGQGTLVTVSS

FIGURE 1 (continued)

>DOM23h-437-6 (SEQ ID NO:19)
EVQLLESGGGLVQPGGSLRLSCATSGFTFSDYRMWWVRQAPGKGLEWVSA
IDSQGHTTYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKYGG
YFDYWGQGTLVTVSS

>DOM23h-437-8 (SEQ ID NO: 20)
EVQLLESGGGLVQPGGSLRLSCAASGFTISDYRMWWVRQAPGKGLEWVSA
IDSQGHTTYYANSVRGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKYGG
YFDYWGQGTLVTVSS

>DOM23h-437-9 (SEQ ID NO: 21)
EVQLLESGGGLVQPGGSLRLSCATSGFTFSDYRMWWVRQAPGKGLEWVSA
IDSQGHTTYYANSVRGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKYGG
YFDYWGQGTLVTVSS

>DOM23h-439-6 (SEQ ID NO: 22)
EVQLLESGGGLVRPGGSLRLSCAASGFTFGTEQMWWVRQAPGKGLEWVSR
IDSPGGRTYYADSVRGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKRHA
AGVSGTYFDYWGQGTLVTVSS

>DOM23h-439-8 (SEQ ID NO: 23)
EVQLLESGGGLVRPGGSLRLSCAASGFTFGTEQMWWVRQAPGKGLEWVSR
IDSPGGRTYYANSVRGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKRHA
AGVSGTYFDYWGQGTLVTVSS

>DOM23h-33 (SEQ ID NO:24)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTTCGCAGTATCGG
ATGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAG
CGATTGCGCCTTCTGGTGATAATACATACTACGCAGACTCCGTGAAGGG
CCGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAA
TGAACAGCCTGCGTGCCGAGGACACCGCGGTATATTACTGTGCGAAACA
TCGGACTTCGTTTGACTACTGGGGTCAGGGAACCCTGGTCACCGTCTCGA
GC

>DOM23h-251 (SEQ ID NO: 25)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTTCGGATTATGATA
TGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTGGAGTGGGTCTCAAA
GATTACGCAGAAGGGTGATTTTACATACTACGCAGACTCCGTGAAGGGC
CGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAAT
GAACAGCCTGCGTGCCGAGGACACCGCGGTATATTACTGTGCGAAAGAT
GCTACTCATTTTGACTACTGGGGTCAGGGAACCCTGGTCACCGTCTCGAG
C

FIGURE 1 (continued)

>DOM23h-262 (SEQ ID NO: 26)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTTTTAATTATGAGA
TGGCGTGGGCCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCATT
GATTAGTGCTGAGGGTACGAGGACATACTACGCAGACTCCGTGAAGGGC
CGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAAT
GAACAGCCTGCGTGCCGAGGACACCGCGGTATATTACTGTGCAAAACGG
CGGGATGCTAGTATGGGTCATACTACTCGGCGGTTTGACTACTGGGGTCA
GGGAACCCTGGTCACCGTCTCGAGC

>DOM23h-271 (SEQ ID NO: 27)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTACGGAGTATAGG
ATGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAT
CGATTGAGCCGATTGGTAATCGTACATACTACGCAGACTCCGTGAAGGG
CCGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAA
TGAACAGCCTGCGTGCCGAGGATACCGCGGTATATTACTGTGCGAAACA
GATTCCGGGGCATAAGTGGACTGCTAATTCGCGGTTTGACTACTGGGGTC
AGGGAACCCTGGTCACCGTCTCGAGCG

>DOM23h-348 (SEQ ID NO: 28)
GAGGTGCAGCTGTTGGAGTCTGGGGGGGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTAGTGATTATGAT
ATGGCGTGGGCCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAC
GTATTTCTCATAGTGGTTATTCTACATACTACGCAGACTCCGTGAAGGGC
CGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAAT
GAACAGCCTGCGTGCCGAGGACACCGCGGTATATTACTGTGCGAAACGT
TCGTGGGATGGGGTTCATGCGCAGTTTGACTACTGGGGTCAGGGAACCC
TGGTCACCGTCTCGAGC

>DOM23h-435 (SEQ ID NO: 29)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCACCTGTGCAGCCTCCGGATTCACCTTTACGGATGATAGG
ATGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAG
CTATTGATCCTCAGGGTCAGCATACATACTACGCAGACTCCGTGAAGGG
CCGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAA
TGAACAGCCTGCGTGCCGAGGATACCGCGGTATATTACTGTGCGAAACA
TAATTCGAGTTTTGACTACTGGGGTCAGGGAACCCTGGTCACCGTCTCGA
GCG

FIGURE 1 (continued)

>DOM23h-436 (SEQ ID NO: 30)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTAGTGATTATAAG
ATGGGTTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAA
GTATTTGGCCTAATGGTGGTTTGACATACTACGCAGACTCCGTGAAGGGC
CGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAAT
GAACAGCCTGCGTGCCGAGGATACCGCGGTATATTACTGTGCGAAAGAT
CATATGGGTTTTGACTACTGGGGTCAGGGAACCCTGGTCACCGTCTCGAG
CG

>DOM23h-437 (SEQ ID NO: 31)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTTCTGATTATCGTA
TGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAGC
GATTGATTCTCAGGGTCATACGACATACTACGCAGACTCCGTGAAGGGC
CGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAAT
GAACAGCCTGCGTGCCGAGGATACCGCGGTATATTACTGTGCGAAATAT
GGGGGTTATTTTGACTACTGGGGTCAGGGAACCCTGGTCACCGTCTCGA
GCG

>DOM23h-438 (SEQ ID NO: 32)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTGCGCAGGGGGAT
ATGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTGGAGTGGGTCTCAC
GTATTGGTATGGATGGTGATAAGACATACTACGCAGACTCCGTGAAGGG
CCGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAA
TGAACAGCCTGCGTGCCGAGGACACCGCGGTATATTACTGTGCGAAAGG
TCCTTCGAGTACTAGTCCGTTTGACTACTGGGGTCAGGGAACCCTGGTCA
CCGTCTCGAGCG

>DOM23h-439 (SEQ ID NO: 33)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTGGGACGGAGCAG
ATGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAC
GTATTGATTCGCCTGGTGGGAGGACATACTACGCAGACTCCGTGAAGGG
CCGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAA
TGAACAGCCTGCGTGCCGAGGACACCGCGGTATATTACTGTGCGAAACG
GCATGCGGCTGGGGTTTCGGGTACTTATTTTGACTACTGGGGTCAGGGAA
CCCTGGTCACCGTCTCGAGCG

FIGURE 1 (continued)

>DOM23h-440 (SEQ ID NO: 34)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTACGGATGATAGG
ATGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAG
CTATTGATCCTCAGGGTCAGCATACATACTACGCAGACTCCGTGAAGGG
CCGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAA
TGAACAGCCTGCGTGCCGAGGACACCGCGGTATATTACTGTGCGAAAGA
GCTGCTTAGTTTTGACTACTGGGGTCAGGGAACCCTGGTCACCGTCTCGA
GCG

>DOM23h-262-6 (SEQ ID NO: 35)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTTTTAATTATGAGA
TGGCGTGGGCCCGCCAGGCTCCAGGGAAGGGCCTAGAGTGGGTCTCATT
GATTAGTGCTGAGGGTACGAGGACATACTACGCAAACTCCGTGAAGGGC
CGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAAT
GAACAGCCTGCGTGCCGAGGACACCGCGGTATATTACTGTGCAAAACGG
CGGGATGCTAGTATGGGTCATACTACTCGGCGGTTTGACCACTGGGGTC
AGGGAACCCTGGTCACCGTCTCGAGC

>DOM23h-262-10 (SEQ ID NO: 36)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTAGTACAGCCCGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTTTTAATTATGAGA
TGGCGTGGGCCCGCCGGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCATT
GATTAGTGCTGATGGTACGAGGACATACTACGCAAACTCCGTGAGGGGC
CGGTTCACCATCTCCCGCGACAATTCCAAGAACCGCTGTATCTGCAAATG
AACAGCCTGCGTGCCGAGGACACCGCGGTATATTACTGTGCAAAACGGC
GGGATGCTAGTATGGGTCATACTACTCGGCGGTTTGACTACTCGGGTCAG
GGAACCCTGGTCACCGTCTCGAGC

>DOM23h-271-3 (SEQ ID NO: 37)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGCACAGCCTCCGGATTCACCTTTACGGAGTATAGG
ATGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAT
TGATTGAGCCGATTGGTAATCGTACATACTACGCAGACTCCGTGAAGGG
CCGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAA
TGAACAGCCTGCGTGCTGAGGATACCGCGGTATATTACTGTGCGAAACA
GATTCCGGGGCATATGTGGACTGCTAATCCGCGGTCTGACTACTGGGGTC
AGGGAACCCAGGTCACCGTCTCGAGC

FIGURE 1 (continued)

>DOM23h-271-7 (SEQ ID NO: 38)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTACGGAGTATAGG
ATGTGGTGGGTCCGCCAGGCTCCGGGGAAGGGTCTCGAGTGGGTCTCAG
CGATTGAGCCGATTGGTAATCGTACATACTACGCAGACTCCGTGAAGGG
CCGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAA
TGAACAGCCTGCGTGCCGAGGATACCGCGGTATATTACTGTGCGAAACA
GATTCCGGGGCGTAAGTGGACTGCTAATTCGCGGTTTGACTACTGGGGTC
AGGGAACCCTGGTCACCGTCTCGAGC

>DOM23h-271-12 (SEQ ID NO: 39)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGCACAGCCTCCGGATTCACCTTTACGGAGTATAGG
ATGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAT
TGATTGAGCCGATTGGTAATCGTACATACTACGCAAACTCCGTGAGGGG
CCGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAA
TGAACAGCCTGCGTGCTGAGGATACCGCGGTATATTACTGTGCGAAACA
GATTCCGGGGCATATGTGGACTGCTAATCCGCGGTCTGACTACTGGGGTC
AGGGAACCCAGGTCACCGTCTCGAGC

>DOM23h-271-13 (SEQ ID NO: 40)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTACGGAGTATAGG
ATGTGGTGGGTCCGCCAGGCTCCGGGGAAGGGTCTCGAGTGGGTCTCAG
CGATTGAGCCGATTGGTAATCGTACATACTACGCAAACTCCGTGAGGGG
CCGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAA
TGAACAGCCTGCGTGCCGAGGATACCGCGGTATATTACTGTGCGAAACA
GATTCCGGGGCGTAAGTGGACTGCTAATTCGCGGTTTGACTACTGGGGTC
AGGGAACCCTGGTCACCGTCTCGAGC

>DOM23h-437-4 (SEQ ID NO: 41)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCATTTCTGATTATCGTA
TGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAGC
GATTGATTCTCAGGGTCATACGACATACTACGCAGACTCCGTGAGGGGC
CGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAAT
GAACAGCCTGCGTGCCGAGGATACCGCGGTATATTACTGTGCGAAATAT
GGGGGTTATTTTGACTACTGGGGTCAGGGAACCCTGGTCACCGTCTCGA
GC

FIGURE 1 (continued)

>DOM23h-437-6 (SEQ ID NO:42)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAACCTCCGGATTCACCTTTTCTGATTATCGTA
TGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAGC
GATTGATTCTCAGGGTCATACGACATACTACGCAGACTCCGTGAAGGGC
CGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAAT
GAACAGCCTGCGCGCCGAGGATACCGCGGTATATTACTGTGCGAAATAT
GGGGGTTATTTTGACTACTGGGGTCAGGGAACCCTGGTCACCGTCTCGA
GC

>DOM23h-437-8 (SEQ ID NO: 43)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCATTTCTGATTATCGTA
TGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAGC
GATTGATTCTCAGGGTCATACGACATACTACGCAAACTCCGTGAGGGGC
CGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAAT
GAACAGCCTGCGTGCCGAGGATACCGCGGTATATTACTGTGCGAAATAT
GGGGGTTATTTTGACTACTGGGGTCAGGGAACCCTGGTCACCGTCTCGA
GC

>DOM23h-437-9 (SEQ ID NO: 44)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAACCTCCGGATTCACCTTTTCTGATTATCGTA
TGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAGC
GATTGATTCTCAGGGTCATACGACATACTACGCAAACTCCGTGAGGGGC
CGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAAT
GAACAGCCTGCGCGCCGAGGATACCGCGGTATATTACTGTGCGAAATAT
GGGGGTTATTTTGACTACTGGGGTCAGGGAACCCTGGTCACCGTCTCGA
GC

>DOM23h-439-6 (SEQ ID NO: 45)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACGGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTGGGACGGAGCAG
ATGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAC
GAATTGATTCACCTGGTGGGAGGACATACTACGCAGACTCCGTGAGGGG
CCGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAA
TGAACAGCCTGCGTGCCGAGGACACCGCGGTATATTACTGTGCGAAACG
GCATGCGGCTGGGGTTTCGGGTACTTATTTTGACTACTGGGGTCAGGGAA
CCCTGGTCACCGTCTCGAGC

FIGURE 1 (continued)

>DOM23h-439-8 (SEQ ID NO: 46)
GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTACGGCCTGGGGGGT
CCCTGCGTCTCTCCTGTGCAGCCTCCGGATTCACCTTTGGGACGGAGCAG
ATGTGGTGGGTCCGCCAGGCTCCAGGGAAGGGTCTAGAGTGGGTCTCAC
GAATTGATTCACCTGGTGGGAGGACATACTACGCAAACTCCGTGAGGGG
CCGGTTCACCATCTCCCGCGACAATTCCAAGAACACGCTGTATCTGCAAA
TGAACAGCCTGCGTGCCGAGGACACCGCGGTATATTACTGTGCGAAACG
GCATGCGGCTGGGGTTTCGGGTACTTATTTTGACTACTGGGGTCAGGGAA
CCCTGGTCACCGTCTCGAGC

FIGURE 2

Kabat Residue	'	'	'	'	5	'	'	'	'	10	'	'	'	'	15	'	'	'	'	20
DOM23h-251	E	V	Q	L	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L
DOM23h-262	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-33	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-348	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-435	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-436	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-438	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-439	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-440	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue	'	'	'	'	25	'	'	'	'	30	'	'	'	'	35	'	'	'	'	40
DOM23h-251	S	C	A	A	S	G	F	T	F	S	D	Y	D	M	W	W	V	R	Q	A
DOM23h-262	.	.	.	.	.	.	.	.	.	F	N	.	E	.	A	.	A	.	.	.
DOM23h-271	.	.	.	.	.	.	.	.	.	T	E	.	R	.	.	.	.	.	.	.
DOM23h-33	.	.	.	.	.	.	.	.	.	.	Q	.	R	.	.	.	.	.	.	.
DOM23h-348	.	.	.	.	.	.	.	.	.	.	.	.	R	.	A	.	A	.	.	.
DOM23h-435	T	.	.	.	.	.	.	.	.	T	.	D	.	.	.	.	.	.	.	.
DOM23h-436	.	.	.	.	.	.	.	.	.	.	.	.	M	.	G	.	.	.	.	.
DOM23h-437	.	.	.	.	.	.	.	.	.	.	.	.	R	.	.	.	.	.	.	.
DOM23h-438	.	.	.	.	.	.	.	.	.	A	Q	G	.	.	.	.	.	.	.	.
DOM23h-439	.	.	.	.	.	.	.	.	.	G	R	E	R	.	.	.	.	.	.	.
DOM23h-440	.	.	.	.	.	.	.	.	.	T	.	D	.	.	.	.	.	.	.	.

FIGURE 2 (continued)

Kabat Residue	45								50					54					59
DOM23h-251	P	G	K	G	L	E	W	V	S	K	I	T	I	S	G	D	F	Y	Y
DOM23h-262	.	.	.	.	.	.	.	.	.	I	.	I	A	I	.	.	I	.	.
DOM23h-271	.	.	.	.	.	.	.	.	.	S	.	S	S	S	.	.	S	.	.
DOM23h-33	.	.	.	.	.	.	.	.	.	A	.	A	I	I	.	.	N	.	.
DOM23h-348	.	.	.	.	.	.	.	.	.	I	.	I	S	S	.	.	I	.	.
DOM23h-435	.	.	.	.	.	.	.	.	.	R	.	R	Q	Q	.	.	Q	.	.
DOM23h-436	.	.	.	.	.	.	.	.	.	I	.	I	N	N	.	.	I	.	.
DOM23h-437	.	.	.	.	.	.	.	.	.	A	.	A	Q	Q	.	.	Q	.	.
DOM23h-438	.	.	.	.	.	.	.	.	.	S	.	S	D	D	.	.	I	.	.
DOM23h-439	.	.	.	.	.	.	.	.	.	I	.	I	P	P	.	.	P	.	.
DOM23h-440	.	.	.	.	.	.	.	.	.	R	.	R	Q	Q	.	.	Q	.	.

Kabat Residue	64								69					74					79
DOM23h-251	A	D	S	V	K	G	R	F	T	I	S	R	D	N	S	K	N	T	L	Y
DOM23h-262	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-33	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-348	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-435	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-436	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-438	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-439	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-440	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

FIGURE 2 (continued)

Kabat Residue	82b						86					91				96
DOM23h-251	S	L	R	A	E	D	T	A	V	Y	Y	C	A	K	D R Q H R H - Y G R E	A K T R S N H G P H L
DOM23h-262	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
DOM23h-271	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
DOM23h-33	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
DOM23h-348	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
DOM23h-435	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
DOM23h-436	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
DOM23h-437	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
DOM23h-438	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
DOM23h-439	.	.	.	.	.	.	.	.	.	.	.	.	.	.		
DOM23h-440	.	.	.	.	.	.	.	.	.	.	.	.	.	.		

Kabat Residue	100a						100f					103				108
DOM23h-251	-	-	-	-	-	-	-	F	D	Y	W	G	Q	G	T	L
DOM23h-262	-	-	-	-	-	-	-	.	.	.	.	.	.	.	.	.
DOM23h-271	-	-	-	-	-	-	-	D	Y	W	G	Q	G	T	L	V
DOM23h-33	-	-	-	-	-	-	-	-	-	-	.	.	.	.	.	.
DOM23h-348	-	-	-	-	-	-	-	-	-	-	.	.	.	.	.	.
DOM23h-435	-	-	-	-	-	-	-	D	Y	W	G	Q	G	T	L	V
DOM23h-436	-	-	-	-	-	-	-	D	Y	W	G	Q	G	T	L	V
DOM23h-437	-	-	-	-	-	-	-	D	Y	W	G	Q	G	T	L	V
DOM23h-438	-	-	-	-	-	-	-	D	Y	W	G	Q	G	T	L	V
DOM23h-439	-	-	-	-	-	-	-	D	Y	W	G	Q	G	T	L	V
DOM23h-440	-	-	-	-	-	-	-	D	Y	W	G	Q	G	T	L	V

FIGURE 2 (continued)

Kabat Residue	'	'	'	'	113
DOM23h-251	V	T	V	S	S
DOM23h-262	.	.	.	.	.
DOM23h-271	T	V	S	.	.
DOM23h-33	.	.	.	.	.
DOM23h-348	.	.	.	.	.
DOM23h-435	T	V	S	.	.
DOM23h-436	T	V	S	.	.
DOM23h-437	T	V	S	.	.
DOM23h-438	T	V	S	.	.
DOM23h-439	T	V	S	.	.
DOM23h-440	T	V	S	.	.

FIGURE 3

Kabat Residue	'	'	'	'	5	'	'	'	'	10	'	'	'	'	15	'	'	'	'	20
DOM23h-262	E	V	Q	L	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L
DOM23h-262-10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-262-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue	'	'	'	'	25	'	'	'	'	30	'	'	'	'	35	'	'	'	'	40
DOM23h-262	S	C	A	A	S	G	F	T	F	F	N	Y	E	M	A	W	A	R	Q	A
DOM23h-262-10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	R	.
DOM23h-262-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue	'	'	'	'	45	'	'	'	'	50	'	'	'	'	54	'	'	'	'	59
DOM23h-262	P	G	K	G	L	E	W	V	S	L	I	S	A	E	G	T	R	T	Y	Y
DOM23h-262-10	.	.	.	.	.	.	.	.	.	.	.	.	.	D	.	.	.	.	.	.
DOM23h-262-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue	'	'	'	'	64	'	'	'	'	69	'	'	'	'	74	'	'	'	'	79
DOM23h-262	A	D	S	V	K	G	R	F	T	I	S	R	D	N	S	K	N	T	L	Y
DOM23h-262-10	.	N	.	.	R	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-262-6	.	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

FIGURE 3 (continued)

Kabat Residue	'	'	'	'	82b	'	'	'	'	86	'	'	'	'	91	'	'	'	'	96
DOM23h-262	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A	K	R	R
DOM23h-262-10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-262-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue	'	'	'	'	100a	'	'	'	'	100f	'	'	'	104	'	'	'	'	109
DOM23h-262	D	A	S	M	G	H	T	T	R	R	F	D	Y	W	G	Q	G	T	L	V
DOM23h-262-10	.	.	.	.	.	.	.	.	.	.	.	.	.	S	.	.	.	.	.	.
DOM23h-262-6	.	.	.	.	.	.	.	.	.	.	.	.	H	.	.	.	.	.	.	.

Kabat Residue	'	'	'	'
DOM23h-262	T	V	S	S
DOM23h-262-10	.	.	.	.
DOM23h-262-6	.	.	.	.

FIGURE 4

Kabat Residue					5					10					15					20
DOM23h-271	E	V	Q	L	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L
DOM23h-271-12	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271-13	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271-7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue					25					30					35					40
DOM23h-271	S	C	A	A	S	G	F	T	F	T	**E**	**Y**	**R**	**M**	**W**	W	V	R	Q	A
DOM23h-271-12	.	-	T	-	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271-13	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271-3	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271-7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue					45					50					54					59
DOM23h-271	P	G	K	G	L	E	W	V	S	**S**	**I**	**E**	**P**	**I**	**G**	**N**	**R**	**T**	**Y**	**Y**
DOM23h-271-12	.	.	.	.	.	.	.	.	.	**L**	.	.	.	.	.	.	.	.	.	.
DOM23h-271-13	.	.	.	.	.	.	.	.	.	**A**	.	.	.	.	.	.	.	.	.	.
DOM23h-271-3	.	.	.	.	.	.	.	.	.	**H**	.	.	.	.	.	.	.	.	.	.
DOM23h-271-7	.	.	.	.	.	.	.	.	.	**A**	.	.	.	.	.	.	.	.	.	.

Kabat Residue					64					69					74					79
DOM23h-271	**A**	**D**	**S**	**V**	**K**	**G**	R	F	T	I	S	R	D	N	S	K	N	T	L	Y
DOM23h-271-12	.	**N**	.	.	**R**	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271-13	.	**N**	.	.	**R**	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271-7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue					82b					86					91					96
DOM23h-271	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A	K	**Q**	**I**
DOM23h-271-12	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271-13	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-271-7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

FIGURE 4 (continued)

Kabat Residue	'	'	'	'	100a'	'	'	'	100f'	'	'	'	103 '	'	'	'	108
DOM23h-271	P	G	H	K	W	T	A	N	S	R	F	D	Y	W	G	Q	G	T	L	V
DOM23h-271-12	.	.	.	M	.	.	.	.	P	.	S	.	.	.	.	.	.	.	.	.
DOM23h-271-13	.	.	R	.	.	.	.	.	.	.	.	.	.	.	-	.	.	.	.	-
DOM23h-271-3	.	.	.	M	.	.	.	.	P	.	S	.	.	.	.	.	.	.	.	.
DOM23h-271-7	.	.	R	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue	'	'	'	'
DOM23h-271	T	V	S	S
DOM23h-271-12	.	.	.	.
DOM23h-271-13	.	.	.	.
DOM23h-271-3	.	.	.	.
DOM23h-271-7	.	.	.	.

FIGURE 5

Kabat Residue	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DOM23h-437	E	V	Q	L	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L
DOM23h-437-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
DOM23h-437	S	C	A	A	S	G	F	T	F	S	D	Y	R	M	W	W	V	R	Q	A
DOM23h-437-4	.	.	.	.	.	.	.	.	I	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-6	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-8	.	.	.	.	.	.	.	.	I	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-9	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
DOM23h-437	P	G	K	G	L	E	W	V	S	A	I	D	S	Q	G	H	T	T	Y	Y
DOM23h-437-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
DOM23h-437	A	D	S	V	K	G	R	F	T	I	S	R	D	N	S	K	N	T	L	Y
DOM23h-437-4	.	.	.	.	R	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-8	.	N	.	.	R	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-9	.	N	.	.	R	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue	80	81	82	82a	82b	82c	83	84	85	86	87	88	89	90	91	92	93	94	95	96
DOM23h-437	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A	K	Y	G
DOM23h-437-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-437-9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

FIGURE 5 (continued)

Kabat Residue	'	'	'	'	101	'	'	'	'	106	'	'	'	'	111	'
DOM23h-437	G	Y	F	D	Y	W	G	Q	G	T	L	V	T	V	S	S
DOM23h-437-4	-	-	-	-	-	-	.	.	.	.	.	.	.	.	.	.
DOM23h-437-6	-	-	-	-	-	-	.	.	.	.	.	.	.	.	.	.
DOM23h-437-8	-	-	-	-	-	-	.	.	.	.	.	.	.	.	.	.
DOM23h-437-9	-	-	-	-	-	-	.	.	.	.	.	.	.	.	.	.

FIGURE 6

Kabat Residue					5					10					15					20
DOM23h-439	E	V	Q	L	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L
DOM23h-439-6	.	.	.	.	.	.	.	.	.	.	.	.	R	.	.	.	.	.	.	.
DOM23h-439-8	.	.	.	.	.	.	.	.	.	.	.	.	R	.	.	.	.	.	.	.

Kabat Residue					25					30					35					40
DOM23h-439	S	C	A	A	S	G	F	T	F	G	T	E	Q	M	W	W	V	R	Q	A
DOM23h-439-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-439-8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue					45					50					54					59
DOM23h-439	P	G	K	G	L	E	W	V	S	R	I	D	S	P	G	G	R	T	Y	Y
DOM23h-439-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-439-8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue					64					69					74					79
DOM23h-439	A	D	S	V	K	G	R	F	T	I	S	R	D	N	S	K	N	T	L	Y
DOM23h-439-6	.	.	.	.	R	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-439-8	.	N	.	.	R	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Kabat Residue					82b					86					91					96
DOM23h-439	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A	K	R	H
DOM23h-439-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-439-8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

FIGURE 6 (continued)

Kabat Residue	'	'	'	'	100a'	'	'	'	100o'	'	'	'	105	'	'	'	'	110
DOM23h-439	A	A	G	V	S	G	T	Y	F	D	Y	W	G	Q	G	T	L	V	T	V
DOM23h-439-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
DOM23h-439-8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

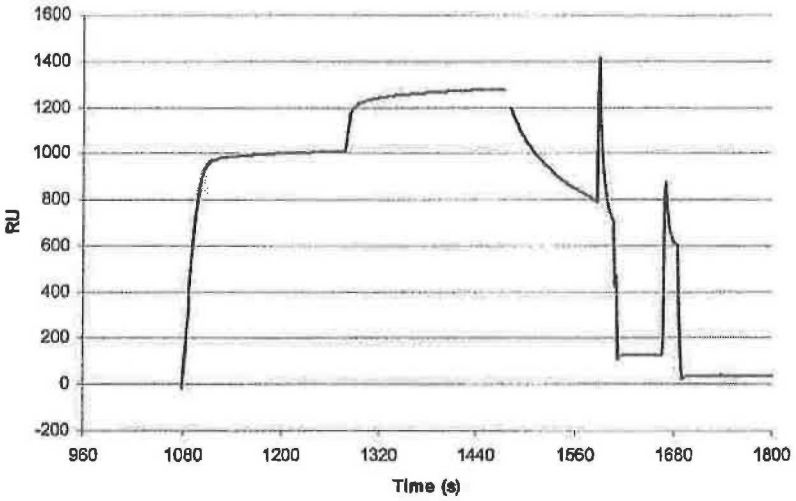
Kabat Residue	'	'
DOM23h-439	S	S
DOM23h-439-6	.	.
DOM23h-439-8	.	.

FIGURE 7

dAb	CDR1	CDR2	CDR3
DOM23h-33	QYRMW (SEQ ID NO: 55)	AIAPSGDNTYYADSVKG (SEQ ID NO: 56)	HRTSFDY (SEQ ID NO: 57)
DOM23h-251	DYDMW (SEQ ID NO: 58)	KITQKGDFTYYADSVKG (SEQ ID NO: 59)	DATHFDY (SEQ ID NO: 60)
DOM23h-262	NYEMA (SEQ ID NO: 61)	LISAEGTRTYYADSVKG (SEQ ID NO: 62)	RRDASMGHTTRRFDY (SEQ ID NO: 63)
DOM23h-271	EYRMW (SEQ ID NO: 64)	SIEPIGNRTYYADSVKG (SEQ ID NO: 65)	QIPGHKWTANSRFDY (SEQ ID NO: 66)
DOM23h-348	DYDMA (SEQ ID NO: 67)	RISHSGYSTYYADSVKG (SEQ ID NO: 68)	RSWDGVHAQFDYW (SEQ ID NO: 69)
DOM23h-435	DDRMW (SEQ ID NO: 70)	AIDPQGQHTYYADSVKG (SEQ ID NO: 71)	HNSSFDYW (SEQ ID NO: 72)
DOM23h-436	DYKMG (SEQ ID NO: 73)	SIWPNGGLTYYADSVKG (SEQ ID NO: 74)	DHMGFDYW (SEQ ID NO: 75)
DOM23h-437	DYRMW (SEQ ID NO: 76)	AIDSQGHTTYYADSVKG (SEQ ID NO: 77)	YGGYFDYW (SEQ ID NO: 78)
DOM23h-438	QGDMW (SEQ ID NO: 79)	RIGMDGDKTYYADSVKG (SEQ ID NO: 80)	GPSSTSPFDY (SEQ ID NO: 81)
DOM23h-439	TEQMW (SEQ ID NO: 82)	RIDSPGGRTYYADSVKG (SEQ ID NO: 83)	RHAAGVSGTYFDY (SEQ ID NO: 84)
DOM23h-440	DDRMW (SEQ ID NO: 85)	AIDPQGQHTYYADSVKG (SEQ ID NO: 86)	ELLSFDYW (SEQ ID NO: 87)
DOM23h-262-6	NYEMAW (SEQ ID NO: 88	LISAEGTRTYYANSVKG (SEQ ID NO: 89)	RRDASMGHTTRRFDH (SEQ ID NO: 90)
DOM23h-262-10	FNYEMA (SEQ ID NO: 91)	LISADGTRTYYANSVRG (SEQ ID NO: 92)	RRDASMGHTTRRFDY (SEQ ID NO: 93)
DOM23h-271-3	EYRMW (SEQ ID NO: 94)	LIEPIGNRTYYADSVKG (SEQ ID NO: 95)	QIPGHMWTANPRSDY (SEQ ID NO: 96)

DOM23h-271-7	EYRMW (SEQ ID NO: 97)	AIEPIGNRTYYADSVKG (SEQ ID NO: 98)	QIPGRKWTANSRFDY (SEQ ID NO: 99)
DOM23h-271-12	EYRMW (SEQ ID NO: 100)	LIEPIGNRTYYANSVRG (SEQ ID NO: 101)	QIPGHMWTANPRSDY (SEQ ID NO: 102)
DOM23h-271-13	EYRMW (SEQ ID NO: 103)	AIEPIGNRTYYANSVRG (SEQ ID NO: 104)	QIPGRKWTANSRFDY (SEQ ID NO: 105)
DOM23h-437-4	DYRMW (SEQ ID NO: 106)	AIDSQGHTTYYADSVRG (SEQ ID NO: 107)	YGGYFDY (SEQ ID NO: 108)
DOM23h-437-6	DYRMW (SEQ ID NO: 109)	AIDSQGHTTYYADSVKG (SEQ ID NO: 110)	YGGYFDY (SEQ ID NO: 111)
DOM23h-437-8	DYRMW (SEQ ID NO: 112)	AIDSQGHTTYYANSVRG (SEQ ID NO: 113)	YGGYFDY (SEQ ID NO: 114)
DOM23h-437-9	SDYRM (SEQ ID NO: 115)	AIDSQGHTTYYANSVRG (SEQ ID NO: 116)	YGGYFDY (SEQ ID NO: 117)
DOM23h-439-6	TEQMW (SEQ ID NO: 118)	RIDSPGGRTYYADSVRG (SEQ ID NO: 119)	RHAAGVSGTYFDY (SEQ ID NO: 120)
DOM23h-439-8	TEQMW (SEQ ID NO: 121)	RIDSPGGRTYYANSVRG (SEQ ID NO: 122)	RHAAGVSGTYFDY (SEQ ID NO: 123)

FIGURE 8


1600
1400
1200
1000
800
600
400
200
0
-200
RU
960
1080
1200
1320
1440
1560
1680
1800
Time (s)

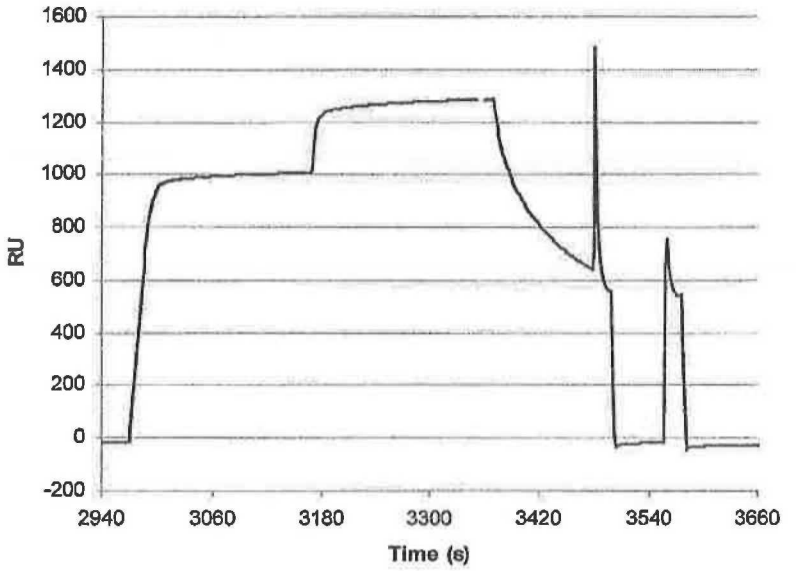
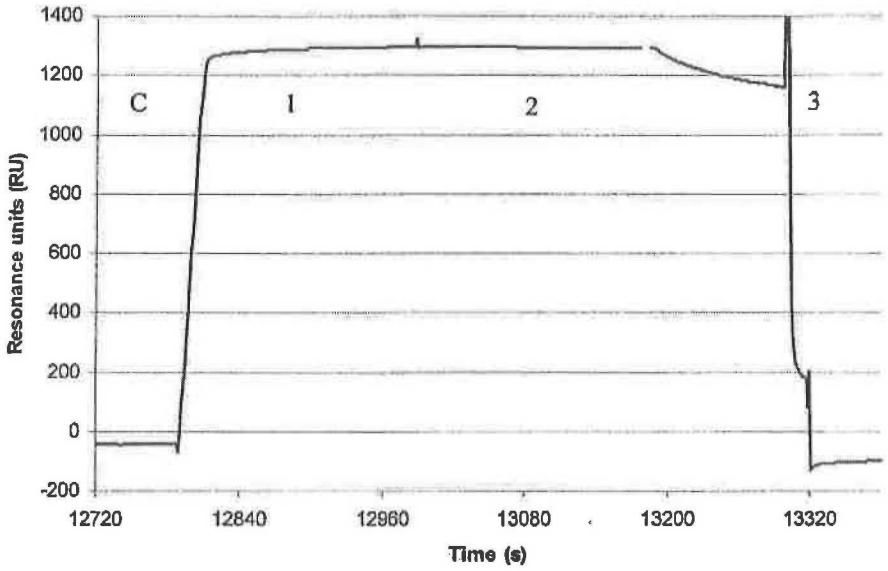

1600
1400
1200
1000
800
600
400
200
0
-200
RU
2940
3060
3180
3300
3420
3540
3660
Time (s)

FIGURE 9


1400
1200
1000
800
600
400
200
0
-200
Resonance units (RU)
C
1
2
3
12720
12840
12960
13080
13200
13320
Time (s)

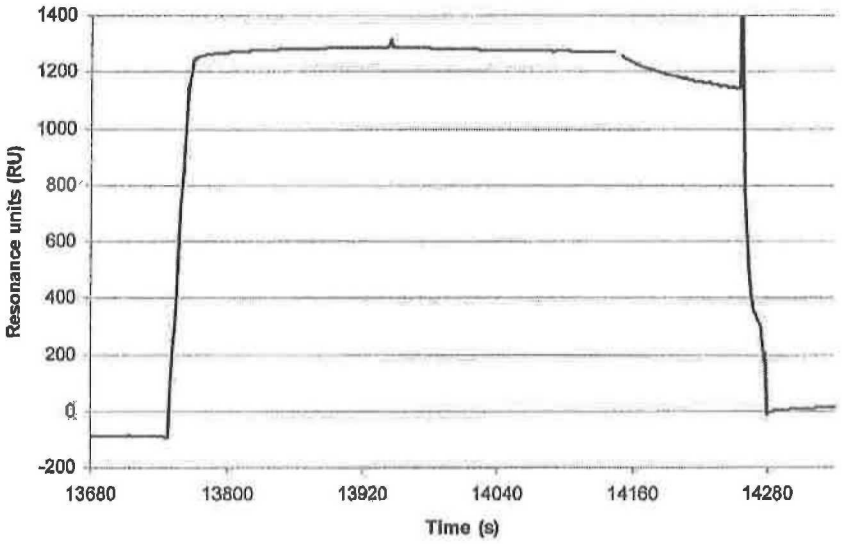

1400
1200
1000
800
600
400
200
0
-200
Resonance units (RU)
13680
13800
13920
14040
14160
14280
Time (s)

FIGURE 10

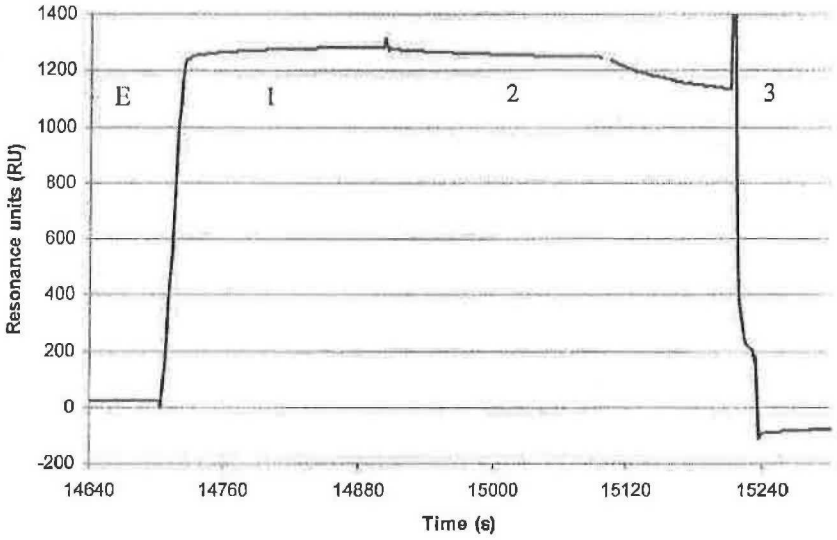

1400
1200
1000
800
600
400
200
0
-200
Resonance units (RU)
E
1
2
3
14640
14760
14880
15000
15120
15240
Time (s)

FIGURE 11

SEQ ID NO:	Identification
1	DOM23h-33 (amino acid)
2	DOM23h-251 (amino acid)
3	DOM23h-262 (amino acid)
4	DOM23h-271 (amino acid)
5	DOM23h-348 (amino acid)
6	DOM23h-435 (amino acid)
7	DOM23h-436 (amino acid)
8	DOM23h-437 (amino acid)
9	DOM23h-438 (amino acid)
10	DOM23h-439 (amino acid)
11	DOM23h-440 (amino acid)
12	DOM23h-262-6 (amino acid)
13	DOM23h-262-10 (amino acid)
14	DOM23h-271-3 (amino acid)
15	DOM23h-271-7 (amino acid)
16	DOM23h-271-12 (amino acid)
17	DOM23h-271-13 (amino acid)
18	DOM23h-437-4 (amino acid)
19	DOM23h-437-6 (amino acid)
20	DOM23h-437-8 (amino acid)
21	DOM23h-437-9 (amino acid)
22	DOM23h-439-6 (amino acid)
23	DOM23h-439-8 (amino acid)
24	DOM23h-33 (nucleic acid)
25	DOM23h-251 (nucleic acid)
26	DOM23h-262 (nucleic acid)
27	DOM23h-271 (nucleic acid)
28	DOM23h-348 (nucleic acid)
29	DOM23h-435 (nucleic acid)
30	DOM23h-436 (nucleic acid)
31	DOM23h-437 (nucleic acid)
32	DOM23h-438 (nucleic acid)
33	DOM23h-439 (nucleic acid)
34	DOM23h-440 (nucleic acid)
35	DOM23h-262-6 (nucleic acid)
36	DOM23h-262-10 (nucleic acid)
37	DOM23h-271-3 (nucleic acid)
38	DOM23h-271-7 (nucleic acid)
39	DOM23h-271-12 (nucleic acid)
40	DOM23h-271-13 (nucleic acid)
41	DOM23h-437-4 (nucleic acid)

FIGURE 11 (continued)

SEQ ID NO:	Identification
42	DOM23h-437-6 (nucleic acid)
43	DOM23h-437-8 (nucleic acid)
44	DOM23h-437-9 (nucleic acid)
45	DOM23h-439-6 (nucleic acid)
46	DOM23h-439-8 (nucleic acid)
47	DOM57
48	DOM6
49	DOM0008
50	DOM0009
51	DOM172
52	DOM173
53	CD131
54	CD130
55	DOM23h-33 CDR1
56	DOM23h-33 CDR2
57	DOM23h-33 CDR3
58	DOM23h-251 CDR1
59	DOM23h-251 CDR2
60	DOM23h-251 CDR3
61	DOM23h-262 CDR1
62	DOM23h-262 CDR2
63	DOM23h-262 CDR3
64	DOM23h-271 CDR1
65	DOM23h-271 CDR2
66	DOM23h-271 CDR3
67	DOM23h-348 CDR1
68	DOM23h-348 CDR2
69	DOM23h-348 CDR3
70	DOM23h-435 CDR1
71	DOM23h-435 CDR2
72	DOM23h-435 CDR3
73	DOM23h-436 CDR1
74	DOM23h-436 CDR2
75	DOM23h-436 CDR3
76	DOM23h-437 CDR1
77	DOM23h-437 CDR2
78	DOM23h-437 CDR3
79	DOM23h-438 CDR1
80	DOM23h-438 CDR2
81	DOM23h-438 CDR3
82	DOM23h-439 CDR1
83	DOM23h-439 CDR2

FIGURE 11 (continued)

84	DOM23h-439 CDR3
85	DOM23h-440 CDR1
86	DOM23h-440 CDR2
87	DOM23h-440 CDR3
88	DOM23h-262-6 CDR1
89	DOM23h-262-6 CDR2
90	DOM23h-262-6 CDR3
91	DOM23h-262-10 CDR1
92	DOM23h-262-10 CDR2
93	DOM23h-262-10 CDR3
94	DOM23h-271-3 CDR1
95	DOM23h-271-3 CDR2
96	DOM23h-271-3 CDR3
97	DOM23h-271-7 CDR1
98	DOM23h-271-7 CDR2
99	DOM23h-271-7 CDR3
100	DOM23h-271-12 CDR1
101	DOM23h-271-12 CDR2
102	DOM23h-271-12 CDR3
103	DOM23h-271-13 CDR1
104	DOM23h-271-13 CDR2
105	DOM23h-271-13 CDR3
106	DOM23h-437-4 CDR1
107	DOM23h-437-4 CDR2
108	DOM23h-437-4 CDR3
109	DOM23h-437-6 CDR1
110	DOM23h-437-6 CDR2
111	DOM23h-437-6 CDR3
112	DOM23h-437-8 CDR1
113	DOM23h-437-8 CDR2
114	DOM23h-437-8 CDR3
115	DOM23h-437-9 CDR1
116	DOM23h-437-9 CDR2
117	DOM23h-437-9 CDR3
118	DOM23h-439-6 CDR1
119	DOM23h-439-6 CDR2
120	DOM23h-439-6 CDR3
121	DOM23h-439-8 CDR1
122	DOM23h-439-8 CDR2
123	DOM23h-439-8 CDR3