

Anti-MMP9 Humanized Heavy Chains

AB0041	QVQLKESGPG	LVAPSQSLSI	TCTVSGFSLL	SYGVHWRQP	PGKGLEWLG
VH1	QVQLQESGPG	LVKPS <u>ETLSL</u>	TCTVSGFSLL	SYGVHWRQP	PGKGLEWLG
VH2	QVQLQESGPG	LVKPS <u>ETLSL</u>	TCTVSGFSLL	SYGVHWRQP	PGKGLEWLG
VH3	QVQLQESGPG	LVKPS <u>ETLSL</u>	TCTVSGFSLL	SYGVHWRQP	PGKGLEWLG
VH4	QVQLQESGPG	LVKPS <u>ETLSL</u>	TCTVSGFSLL	SYGVHWRQP	PGKGLEWLG
AB0041	IWTGGTTNYN	SALMSRLSIS	KDDSKSQVFL	KMNSLQTDDT	AIYYCARYY
VH1	IWTGGTTNYN	SALMSRLTIS	KDDSKSTVYL	KMNSLKTEDT	AIYYCARYY
VH2	IWTGGTTNYN	SALMSRLTIS	KDDSKNTVYL	KMNSLKTEDT	AIYYCARYY
VH3	IWTGGTTNYN	SALMSRFTIS	KDDSKNTVYL	KMNSLKTEDT	AIYYCARYY
VH4	IWTGGTTNYN	SALMSRFTIS	KDDSKNTLYL	KMNSLKTEDT	AIYYCARYY
AB0041	GMDYWGQGT	VTSS (SEQ ID NO: 3)			
VH1	GMDYWGQGT	VTSS (SEQ ID NO: 5)			
VH2	GMDYWGQGT	VTSS (SEQ ID NO: 6)			
VH3	GMDYWGQGT	VTSS (SEQ ID NO: 7)			
VH4	GMDYWGQGT	VTSS (SEQ ID NO: 8)			

FIG. 1

Anti-MMP9 Humanized Light Chains

AB0041	DIVMTQSHKF	MSTSVGDRVS	ITCKASQDVR	NTVAWYQQKT	GQSPKLLIYS
Vk1	DIVMTQSPSF	LSASVGDRVT	ITCKASQDVR	NTVAWYQQKT	GKAPKLLIYS
Vk2	DIVMTQSPSS	LSASVGDRVT	ITCKASQDVR	NTVAWYQQKP	GKAPKLLIYS
Vk3	DIQMTQSPSS	LSASVGDRVT	ITCKASQDVR	NTVAWYQQKP	GKAPKLLIYS
Vk4	DIQMTQSPSS	LSASVGDRVT	ITCKASQDVR	NTVAWYQQKP	GKAPKLLIYS
AB0041	SSYRNTGVPD	RFTGSGSGTD	FTFTISSVQA	EDLAVYFCQQ	HYITPYTFGG
Vk1	SSYRNTGVPD	RFTGSGSGTD	FTLTISSLQA	EDVAVYFCQQ	HYITPYTFGG
Vk2	SSYRNTGVPD	RFTGSGSGTD	FTLTISSLQA	EDVAVYFCQQ	HYITPYTFGG
Vk3	SSYRNTGVPD	RFSGSGSGTD	FTLTISSLQA	EDVAVYFCQQ	HYITPYTFGG
Vk4	SSYRNTGVPD	RFSGSGSGTD	FTLTISSLQA	EDVAVYFCQQ	HYITPYTFGG
AB0041	GTKLEIK	(SEQ ID NO:4)			
Vk1	GTKVEIK	(SEQ ID NO:9)			
Vk2	GTKVEIK	(SEQ ID NO:10)			
Vk3	GTKVEIK	(SEQ ID NO:11)			
Vk4	GTKVEIK	(SEQ ID NO:12)			

FIG. 2

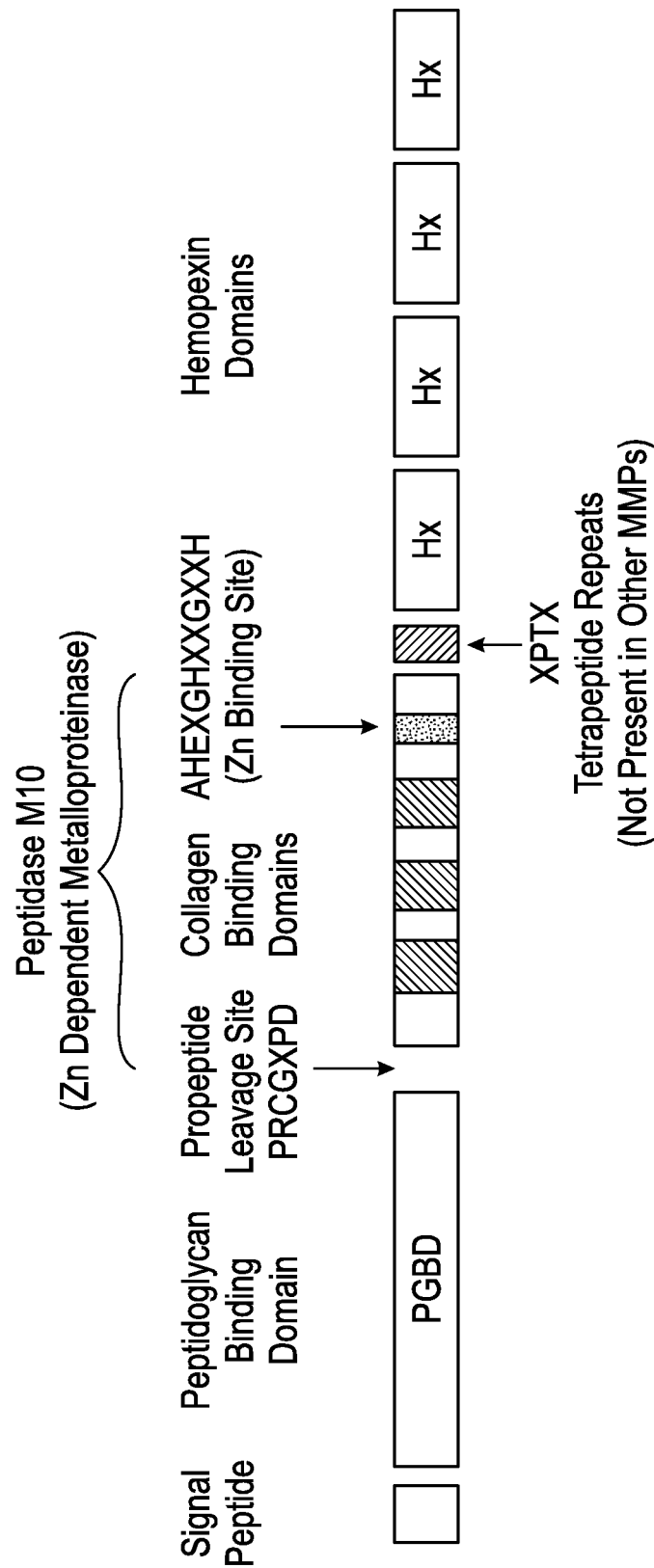


FIG. 3

Comparison Between AB0041, M4, and M12 Heavy and Light Chains

Light Chains

	Signal Peptide	CDRL1	CDRL2
M4	MESQIQVFVFLWLSGVDG	DI VMTQSHKFMETSVGDRVSI	TCKASQDVRNTVAWYQQKTGQSPKLLIYSA
AB0041	MESQIQVFVFLWLSGVDG	DI VMTQSHKFMSTSVGDRVSI	TCKASQDVRNTVAWYQQKTGQSPKLLIYSSSYRNTGV
M12	-----QVFVYMLLWLSGVDG	DI VMTQSKQFMSTSVGDRVSI	TCKASQNVGTNVAWYQQKPKALLIYSA

	CDRL3	Kappa Constant	(SEQ ID NO:51)
M4	RFTGSISGTDFTFTISSVQAEDLAIYV	QQQHYSTPYTFGGGTKLEIKRADAA	PTVSIFFPSSEQLTSG
AB0041	RFTGSGSGTDFTFTISSVQAEDLAVYFC	QQHYITPYTFGGGTKLEIKRADAA	PTVSIFFPSSEQLTSG
M12	RFTGSGSGTDFTFTISNVQSEDLAEYFC	QQVNSYPYTFGGGTKLEIKRADAA	PTVSIFFPSSEQLTSG

Heavy Chains

	Signal Peptide	CDRL1	CDRL2...
M4	MAVLVLFCLVAFPCVLS	QVQLKESGPGLVAPSQSLSI	TCTVSGFSLLSYGVHWWRQPPGKGLEWLGVIW
AB0041	MAVLVLFCLVAFPCVLS	QVQLKESGPGLVAPSQSLSI	TCTVSGFSLLSYGVHWWRQPPGKGLEWLGVIW
M4	ALMSRLISKDDSKSQVFLKMNSLQ	TDATAIYYCARYYYAMDY	WVGQGTSTVSSAKTTPPSVYPLAPGCGD
AB0041	ALMSRLISKDDSKSQVFLKMNSLQ	TDATAIYYCARYYYGMDY	WVGQGTSTVSSAKTTPPSVYPLAPGCGD
M4	CLVKGYFPESVTVTWNSGSL	(SEQ ID NO:54)	
AB0041	CLVKGYFPESVTVTWNSGSL	(SEQ ID NO:55)	

FIG. 4