# FIGURE 1

**Anti-MMP9 humanized heavy chains**

| | | | | | |
|---|---|---|---|---|---|
| AB0041 | QVQLKESGPG | LVAPSQSLSI | TCTVSGFSLL | SYGVHWVRQP | PGKGLEWLGV |
| VH1 | QVQLQESGPG | LVKPSETLSL | TCTVSGFSLL | SYGVHWVRQP | PGKGLEWLGV |
| VH2 | QVQLQESGPG | LVKPSETLSL | TCTVSGFSLL | SYGVHWVRQP | PGKGLEWLGV |
| VH3 | QVQLQESGPG | LVKPSETLSL | TCTVSGFSLL | SYGVHWVRQP | PGKGLEWLGV |
| VH4 | QVQLQESGPG | LVKPSETLSL | TCTVSGFSLL | SYGVHWVRQP | PGKGLEWLGV |

| | | | | | |
|---|---|---|---|---|---|
| AB0041 | IWTGGTTNYN | SALMSRLSIS | KDDSKSQVFL | KMNSLQTDDT | AIYYCARYYY |
| VH1 | IWTGGTTNYN | SALMSRLTIS | KDDSKSTVYL | KMNSLKTEDT | AIYYCARYYY |
| VH2 | IWTGGTTNYN | SALMSRLTIS | KDDSKNTVYL | KMNSLKTEDT | AIYYCARYYY |
| VH3 | IWTGGTTNYN | SALMSRFTIS | KDDSKNTVYL | KMNSLKTEDT | AIYYCARYYY |
| VH4 | IWTGGTTNYN | SALMSRFTIS | KDDSKNTLYL | KMNSLKTEDT | AIYYCARYYY |

| | | |
|---|---|---|
| AB0041 | GMDYWGQGTS VTVSS | (SEQ ID NO:3) |
| VH1 | GMDYWGQGTS VTVSS | (SEQ ID NO:5) |
| VH2 | GMDYWGQGTL VTVSS | (SEQ ID NO:6) |
| VH3 | GMDYWGQGTL VTVSS | (SEQ ID NO:7) |
| VH4 | GMDYWGQGTL VTVSS | (SEQ ID NO:8) |

# FIGURE 2

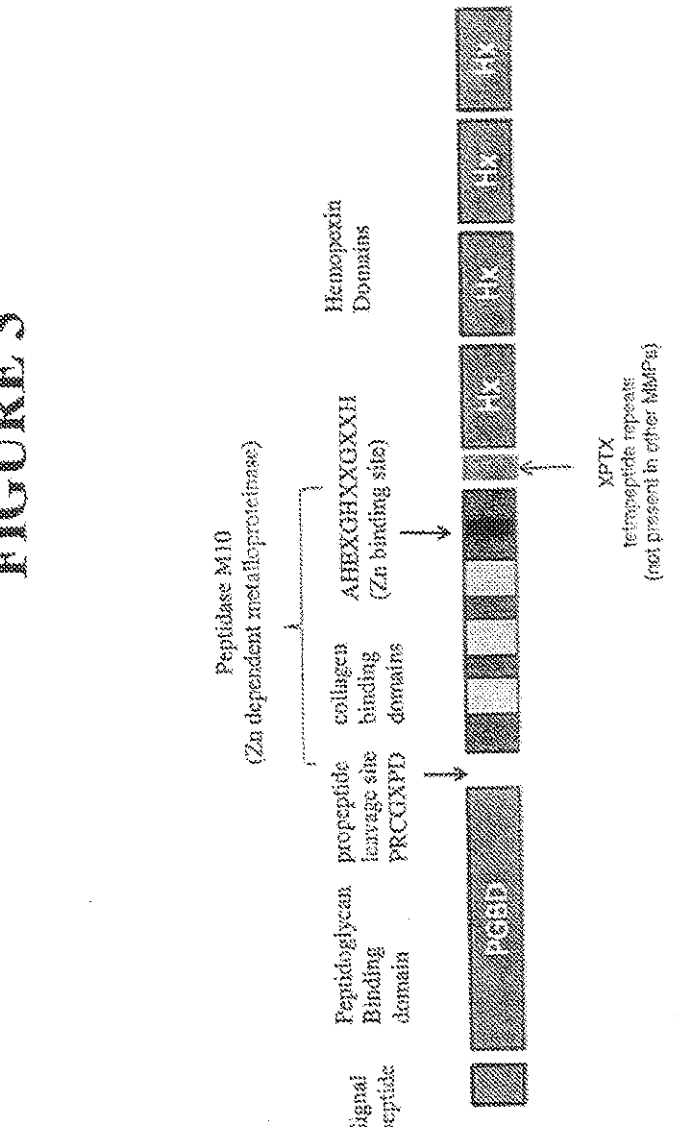
**Anti-MMP9 humanized light chains**

```
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 FIFTISSVQA EDLAVYFCQQ HYITPYTFGG
Vk1      SSYRNTGVPD RFTGSGSGTD FTLTISSLQA EDVAVYFCQQ HYITPYTFGG
Vk2      SSYRNTGVPD RFTGSGSGTD FTLTISSLQA EDVAVYFCQQ HYITPYTFGG
Vk3      SSYRNTGVPD RFSGSGSGTD FTLTISSLQA EDVAVYFCQQ HYITPYTFGG
Vk4      SSYRNTGVPD RFSGSGSGTD FTLTISSLQA EDVAVYYCQQ 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)
```

# FIGURE 3




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Figure 4: Comparison between AB0041, M4, and M12 heavy and light chains

