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       GNDYWGQGTS 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 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 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

