FIGURE 1A

```
mu13H5  QVLLKQSGPSLVQPSQSLSITCTVS GFSLSRYGVH WVRQSPGKGLEWLG
          * **  ***   **  *** **                 *       **
hu13H5  QVQLVESGGGVVQPGRSLRLSCAAS GFSLSRYGVH WVRQAPGKGLEWVA

mu13H5  VIWRSGSTDYNAAFMS RLSITQDNSKSQVFFNMNSLQSDDSAIYYCAK
                         ** **    ******    *** * *    *
hu13H5  VIWRSGSTDYNAAFMS RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAR

mu13H5  KAFYVMDY WGQGTSVTVSS
                  *
hu13H5  KAFYVMDY WGQGTLVTVSS
```

FIGURE 1B

```
mu13H5  DIQMTQTTSSLSASLGDRVTISC RASQDISIYLN WYQQKPDGTVKLLIY
              **      *      *                    ****
hu13H5  DIQMTQSPSSLSASVGDRVTITC RASQDISIYLN WYQQKPGKAPKLLIY

mu13H5  YTSRLHS GVPSRFSGSGSGTNFSLTITNLEEEDIATYFC QQGNTLPWT
                           * *   ** **  *   *
hu13H5  YTSRLHS GVPSRFSGSGSGTDFTLTISSLQPEDFATYYC QQGNTLPWT

mu13H5  FGGGTKLEIKRT
          *   *
hu13H5  FGQGTKVEIKRT
```

FIGURE 2A

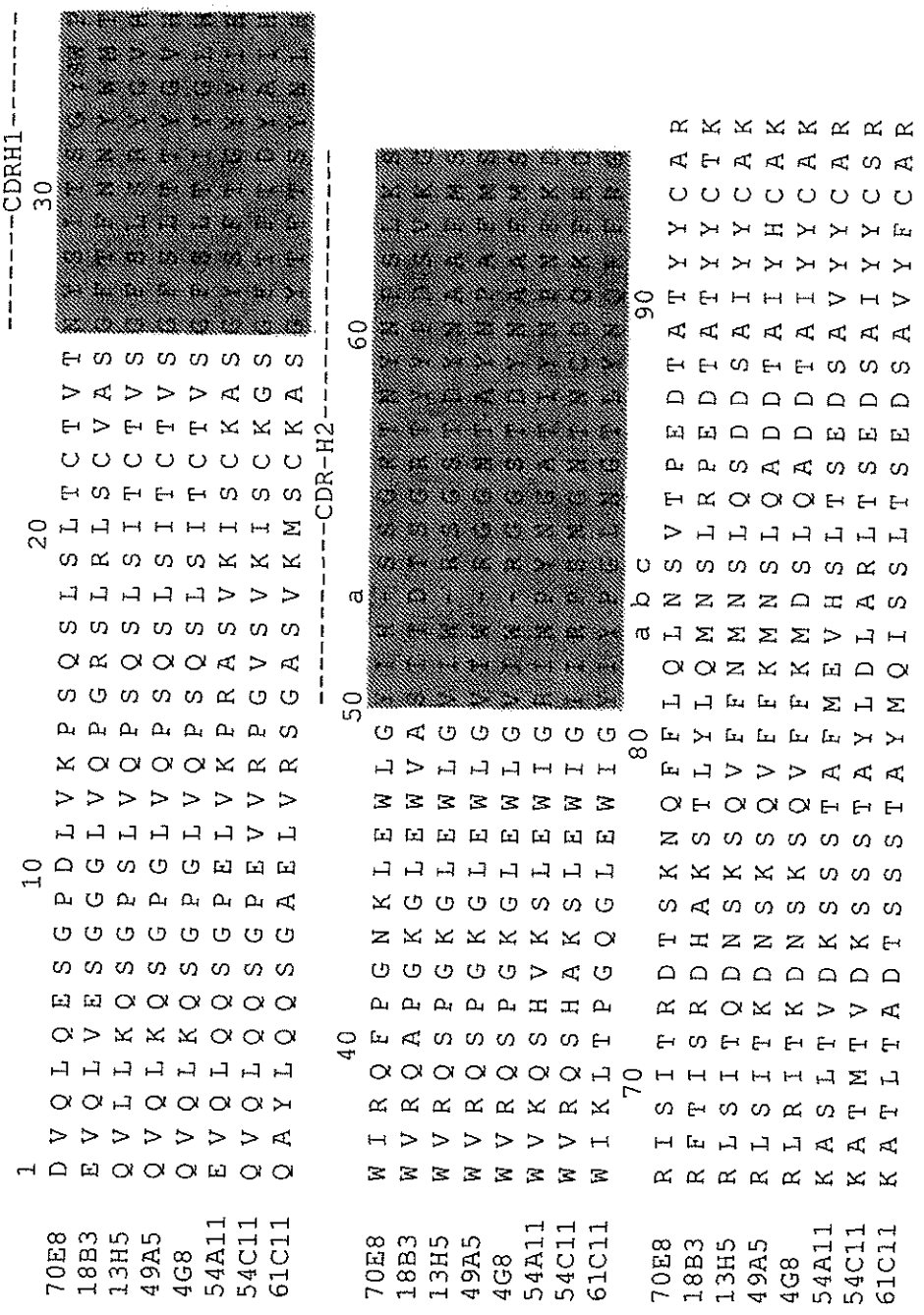

-------CDRH1-------
----------CDR-H2----------
1 10 20 30 40 50 a 60 70 80 a b c 90
70E8 D V Q L Q E S G P D L V K P S Q S L S L T C T V T
18B3 E V Q L V E S G G G L V Q P G G R S L R L S C V A S
13H5 Q V L L K Q S G P S L V Q P S Q S L S I T C T V S
49A5 Q V Q L K Q S G P G L V Q P S Q S L S I T C T V S
4G8 Q V Q L K Q S G P G L V Q P S Q S L S I T C T V S
54A11 E V Q L Q Q S G P E L V K P R A S V K I S C K A S
54C11 Q V Q L Q Q S G P E V V R P G V S V K I S C K G S
61C11 Q A Y L Q Q S G A E L V R S G A S V K M S C K A S
70E8 W I R Q F P G N K L E W L G
18B3 W V R Q A P G K G L E W V A
13H5 W V R Q S P G K G L E W L G
49A5 W V R Q S P G K G L E W L G
4G8 W V R Q S P G K G L E W L G
54A11 W V K Q S H V K S L E W I G
54C11 W V R Q S H A K S L E W I G
61C11 W I K L T P G Q G L E W I G
70E8 R I S I T R D T S K N Q F F L Q L N S V T P E D T A T Y Y C A R
18B3 R F T I S R D H A K S T L Y L Q M N S L R P E D T A T Y Y C T K
13H5 R L S I T Q D N S K S Q V F F N M N S L Q S D D S A I Y Y C A K
49A5 R L S I T K D N S K S Q V F F K M N S L Q A D D T A I Y H C A K
4G8 R L R I T K D N S K S Q V F F K M D S L Q A D D T A I Y Y C A K
54A11 K A S L T V D K S S S T A F M E V H S L T S E D S A V Y Y C A R
54C11 K A T M T V D K S S S T A Y L D L A R L T S E D S A I Y Y C S R
61C11 K A T L T A D T S S S T A Y M Q I S S L T S E D S A V Y F C A R

FIGURE 2A (CONT.)

```
                    ----------CDR-H3----------
                  100                       110
70E8    SQIIGFLTTVGSGQGTLVTVSA
18B3    TLIGDPRDVGSGQGVMVTVSS
13H5    KKIGYIYYSGSGQGTSVTVSS
49A5    WSIYYSGSTYYGQGTSVTVSS
4G8     LYYDYDGFAYWGQGTLVTVSA
54A11   GYYGSSPFDYWGQGTTLTVSS
54C11   SRVRGGSYYYWGQGTLVTVSA
61C11   SGYYGSSYWYFDVWGRGTLVTVSA
```

FIGURE 2B

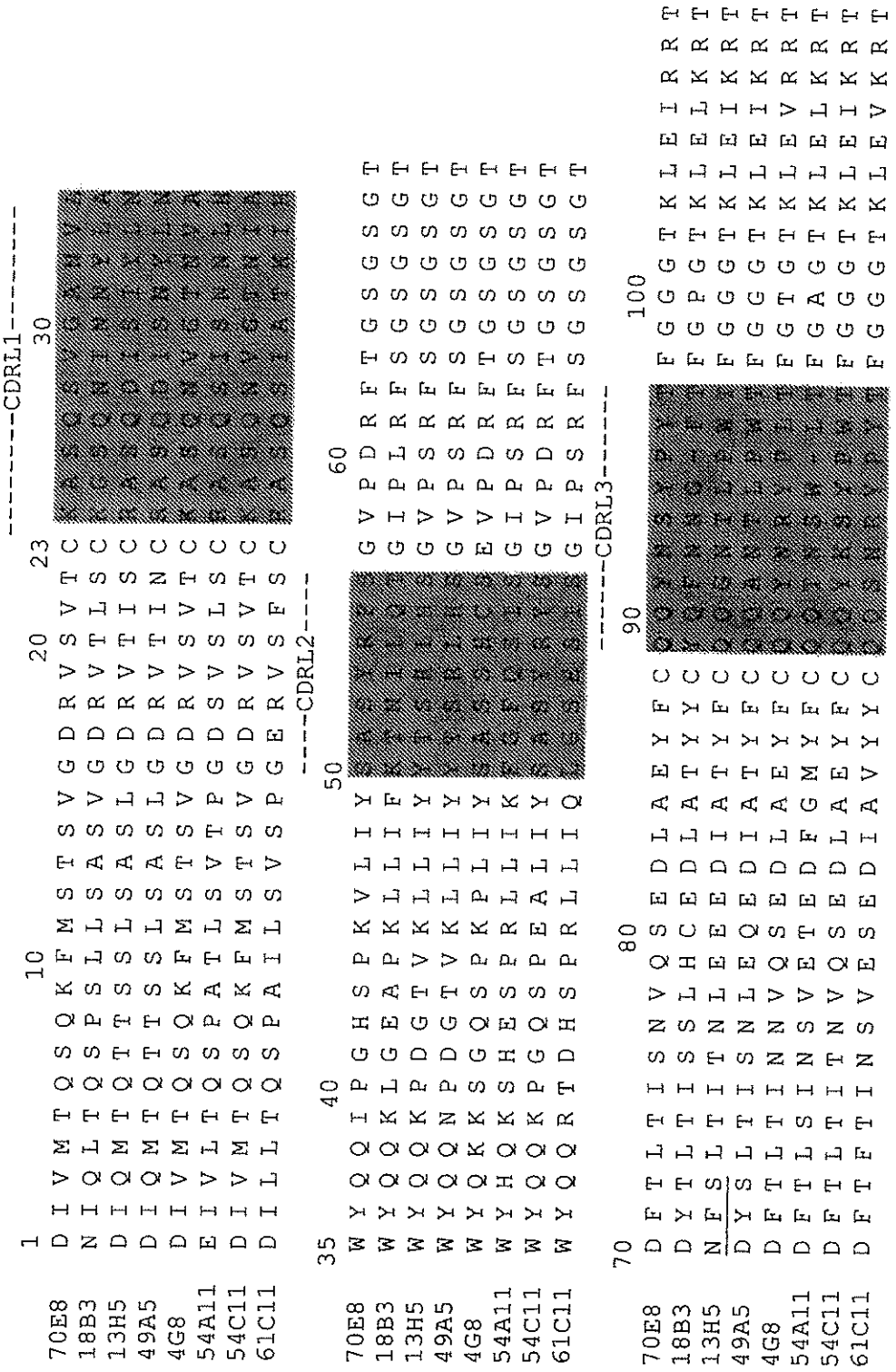


FIGURE 3A

Humanized 13H5 heavy chain VH-III

```
              10        20        30        40        50        60
               *         *         *         *         *         *
13H5   QVLLKQSGPSLVQPSQSLSITCTVS GFSLSRYGVH WVRQSPGKGLEWLG VIWRSGSTDYNAAFMS
hu13H5 QVQLVESGGGVVQPGRSLRLSCAAS GFSLSRYGVH WVRQAPGKGLEWVA VIWRSGSTDYNAAFMS
                              V                          LG                K

          70        80        90        100       110
           *         *         *         *         *
13H5   RLSITQDNSKSQVFFNMNSLQSDDSAIYYCAK KAFYVMDY WGQGTSVTVSS
hu13H5 RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAR KAFYVMDY WGQGTLVTVSS
       L   Q    S V                   K               S
```

FIGURE 3B

Humanized 13H5 light chain VLK-I

```
              10        20        30        40        50
               *         *         *         *         *
13H5   DIQMTQTTSSLSASLGDRVTISC RASQDISIYLN WYQQKPDGTVKLLIY YTSRLHS
hu13H5 DIQMTQSPSSLSASVGDRVTITC RASQDISIYLN WYQQKPGKAPKLLIY YTSRLHS

          60        70        80        90        100
           *         *         *         *         *
13H5   GVPSRFSGSGSGTNFSLTITNLEEEDIATYFC QQGNTLPWT FGGGTKLEIKR
hu13H5 GVPSRFSGSGSGTDFTLTISSLQPEDFATYYC QQGNTLPWT FGQGTKVEIKR
                  N                     Q
```