H9C12WT Heavy chain: 64.8% identity

```
Reference   QVQLKQSGPGLLQPSQRLSITCTVSGFSLGRYGVH---WIRQSPGKGLEWLGVIWRGGTTDYNAVFMSRLSINKDDSKSQVFFTMNSLRPDDTAIYYCAR--QGSNFPLAYWGQGTLVTVSA
Assembly    QVQLKQSGPGLLQPSQRLSLTCTVSGFSIGRGGGGSGGFIRQSPGKGLEWIGVIWRRGSTCYNPSLKSLVNISLDTSKNQVSLSLSAVQEADLAVYFPQRGQQSGNFPLAYWGQGTLVTVSA
            ********************* ******* ** *       ********** ***** * * **     *   * * ** **        * * *  * *  *  * ****************
```

H9C12WT Light chain: 67.0% identity

```
Reference   NIVMTQTPKFLLVSIGDSITITCKASQSVTNDAA-----WYQKKPGQSPQLLIYQASTRYTGVPDRFSGSGYGTDFTFTISAVQAEDLAVYFCHQDYSSPLTFGAGTKLELK
Assembly    NLVMTQTPKFLLVTPGEPATITLRSSQSLLNENGYNYKYWYQKKPGQSPQLLIYQASTRASGVPDRFGSPRYGTGGSDFISRVQAEDLAVPECHQDLQSP-TFGAGTKLEIK
            * ***********  *   ***   ***  *        ******************* ******     ***     ** ********  ****  ** ********* *
```

Umab Heavy chain: 88.2% identity

```
Reference   EVQLVQSGAEVKKPGESLKISCKGSGYSFTTYWLGWVRQMPGKGLDWIGIMSPVDSDIRYSPSFQGQVTMSVDKSITTAYLQWNSLKASDTAMYYCARRRPGQGYFDFWGQGTLVTVSS
Assembly    EVQLVQSGAEVKKPGESLKISGHGSGYSFTTYWIGWVRQMPNK-LDWLGIMSPVDSDLRYSPSFQGQVTMSVDKSITTAYLQWNSLKASDTAMYYHAQRP--QFPFDFWGQGTLVTVSS
            ********************* ********** ******* * *** ********* ************************************** * *   * **** ********
```

Umab Light chain: 92.5% identity

```
Reference   DIQMTQSPSSLSASVGDRVTITCRASQGISSWLAWYQQKPEKAPKSLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQYNIYPYTFGQGTKLEIK
Assembly    DIQMTQSPSSLSASVGDRVTITCRASQGISSWLAWYQQKPEKAPKSLIYAASSLQSGVPSRFSGSGSGPDLTLTITLLLPEDFATYYQCQYNLYPYTFGQGTKLEIK
            *************************************************************** * **** * ********  *** *****************
```

PGDM1400 Heavy chain: 61.6% identity

```
Reference   QAQLVQSGPEVRKPGTSVKVSCKAPGNTLKTYDLHWVRSVPGQGLQWMGWISHEGDKK----VIVERFKAKVTIDWD----RSTNTAYLQLSGLTSGDTAVYYCAKGSKHRLRDYALYDDDGALNWAVDVDYLSNLEFWGQGTAVTVSS
Assembly    QV-LLQQPEELVKP-SQEKVSCKAPGNTLTTYDIHWVRQVPGQGLQWMGWISHEGDKKKLRKVLVERFKFTTSTPAAGLGVASTSTAYLQLSLSTSGDTAVYYCAK-------DLADVD--------VDVDA---LEFWGQGTAVTVSS
            * * *  * **      **********  *** ***** ******************      ******  *   ** *******  *  *  *****      * * *****     ******************************
```

PGDM1400 Light chain: 96.4% identity

```
Reference   DFVLTQSPHSLSVTPGESASISCKSSHSLIHGDRNNYLAWYVQKPGRSPQLLIYLASSRASGVPDRFSGSGSGSDKDFTLKISRVETEDVGTYYCMQGRESPWTFGQGTKVDIK
Assembly    DFVLTQSPHSLSVTPGESASISCKSSHSLLHGDRSNYLAWYVQKPGRSPQLLIDLASERASGVPDRFSGSGSGSDKDFTLKISRVETEDVGTYYCMQGRESPWTFGQGTKVDIK
            *****************************  **** *************** *** *** *********************************************** ********
```