

Reference VQVLKQSGPGLLQPSQRLSLTCTVSGFSLGRYGVH--WIRQSPGKGLEWLGVIRWGTTDYNVAFMSRLSINKDDSKSQVFFTMNSLRPDDTAIYYCAR--QGSNFPLAYWQGQTLTVTSA
Assembly VQVLKQSGPGLLQPSQRLSLTCTVSGFSLGRGGGGGGFIRQSPGKGLEWIGVIRWGSTCYNPSLKSIVNISLDTSKNQVSLSLSAVQEADLAVYFPQRQGSNFFPLAYWQGQTLTVTSA

Reference NIVMTQTPKFLVLSIGDSIITCKASQSVNTDAA----WYQKKPGQSPQLLIYAQSTRYTGVPDFRGSFGSYGDTFTTISAVQAEDLAVFYCHQDYSSPLTFGAGTKLELK
Assembly NLVMVTQPKFLLLVTPGEPAITILRSSQSLLNENGYNYKYWKQKPGQSPQLLIYAQSTRASGVPDFRGSPRYTGGSDFTRSRVAEDLAVPECHQDLQSP-TFGAGTKLEIK

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Reference EVQLVQSGAEVKKPGESLKISKGSYGFSTTYWLGWRQMPGKGLDWIGIMSPVDSDIRYSPFQGGVMTSDVKSIITAYLQWNSLKASDTAMYQCARRRRPGQGYFDFFWGGQGLTVTVSS
Assembly EVQLVQSGAEVKKPGESLKISGHGSYGFSTTYWIGWRQMPNK-LDWLGIMSPVDSDLRYSPFQGGVMTSDVKSIITAYLQWNSLKASDTAMYVHAQRP-QPFFDFWGGQGLTVTVSS

Reference	DIQMTQSPSSLSASVGDRVVTITCRASQGISSWLAWYQQKPEKAPKSLIIYAASSLQSGVPSRFGSGSGSDFTLTITLSSLPQEDFATYYCQQYNIYPYTFGGQGTGLEIK
Assembly	DIQMTQSPSSLSASVGDRVVTITCRASQGISSWLAWYQQKPEKAPKSLIIYAASSLQSGVPSRFGSGSGSPDLTITLTLLPQEDFATYYCQQYNLYPYTFGGQGTGLEIK

Reference QAGLVQSGPEVRKPGTSSVKVSCAPGNLTITDYLHWVRVPGQGLQWMGWISHEGDKK---VIVERFKAQVTIDW---RSTNTAYLQLSGLTSGDTAVVYCAKAGSKHRLRDYALYDDDGALNNAVDVDYLSNLEFWQGGTAVTVSS
Assembly QV-LIQPEELVKP-SQEVKSCAPGNLTITDYLHWVRVPGQGLQWMGWISHEGDKKLRKVLVVERFKFTTSTPAAGLVASTSTAYLQLSLSSTSGDTAVVYCAK-----DLADV-----VDVDA-----LEFWQGGTAVTVSS

Reference	DFVLTQSPHSLSVTPGESASSCKSSHSLIHGDRNNYLAWYVQKPGRSPQLLIYLASSRASGVPDFRSGSGSDKDFTLKISRVEDVDGVTYYCMQGRESPTWFGGQTKVDIK
Assembly	DFVLTQSPHSLSVTPGESASSICKSSHSLIHGDRNSLYLAWYVQKPGRSPQLLIASERASGVPDFRSGSGSDKDFTLKISRVEDVDGVTYYCMQGRESPTWFGGQTKVDIK