## PJBU BCR recombinations Sample IGHV1-2\_IGHD1-26\_IGHJ5 IGHV1-24\_IGHD3-22\_IGHJ2 IGHV1-3\_IGHD3-3\_IGHJ5 IGHV1-69\_IGHD6-19\_IGHJ3 IGHV3-21\_IGHD4-17\_IGHJ4 IGHV3-21\_IGHD5-12\_IGHJ3 IGHV3-23\_IGHD2-2\_IGHJ4 IGHV3-23\_IGHD3-16\_IGHJ4 IGHV3-23\_IGHD3-3\_IGHJ4 IGHV3-23\_IGHD6-13\_IGHJ4 IGHV3-30\_IGHD1-1\_IGHJ4 IGHV3-30\_IGHD1-1\_IGH34 IGHV3-30-3\_IGHD3-3\_IGHJ6 IGHV3-33\_IGHD2-21\_IGHJ6 **IgH** IGHV3-33\_IGHD3-9\_IGHJ2 IGHV3-33\_IGHD4-11\_IGHJ3 IGHV3-33 IGHD6-13 IGHJ4 IGHV3-53\_IGHD3-16\_IGHJ4 IGHV3-66\_IGHD3-16\_IGHJ4 IGHV3-71\_IGHD3-16\_IGHJ4 IGHV3-72\_IGHD6-13\_IGHJ4 IGHV4-39\_IGHD3-9\_IGHJ6 IGHV5-51\_IGHD3-22\_IGHJ4 IGHV5-51\_IGHD5-24\_IGHJ4 CAKDWYYDFWSGYYSLYYFDYW CAKGFCRSTSCYERPFDYW CAKSAVGQQLVFDYW CAKTPRWYRVGVDYW CARAGSSWTLYFDYW CARAGOSWIETTDTW CARAGVTTSTDYW CARDLDVDIVATIGDAFDIW CARDLI DWGYFDI W CARDLEDWGTFDLW CARDLTEQQLVPGPFDYW CARDLVVVTADDRYYYYGMDVW CARDREGDIAVAGNDAFDIW CARDSGSGYDFWSGYYPGYYGMDVW IgH CDR3aa CARDWGFDYR CARDWGFDYW CARGPSFLRSGSYGANWFDPW CARGSPNNNWRNWFDPW CARGWGFDYW CARHEAGDGYSDYW CARLSTLRYFDWLLSPDPYYYYYGMDVW CARTPDDYSDAFDIW CASQYYYDSSGYSHYFDYW CATDFRRSSGYPSRGYFDLW CATTAGGRLGELSLYFDYW CERDWGFDYW IGKV1-13 NA IGKJ3 IGKV1-13\_NA\_IGKJ3 IGKV1-37\_NA\_IGKJ1 IGKV1-39\_NA\_IGKJ2 IGKV1-5\_NA\_IGKJ1 IGKV3-11\_NA\_IGKJ1 IGKV3-11\_NA\_IGKJ4 **IgK** IGKV3-11\_NA\_IGKJ5 IGKV3-15\_NA\_IGKJ4 IGKV3-20 NA IGKJ1 IGKV4-1\_NA\_IGKJ1 IGKV4-1\_NA\_IGKJ2 Sample MYC::IGH-IGKV4-1 NA IGKJ4 MYC::IGH+ COOL KNYPETE CQQRSNWPLTF CQQRSNWPPSLTF CQQRSNWPWTF CQQRSSWPPITF CQQSYSTLGYTF CQQSYSTPYTF IgK CDR3aa CQQYGSSPWTF COOYNNWPTF CQQYNSYKVTF CQQYYSIPWTF COOYYSTLIYTE CQQYYSTPLLTF CQQYYSTPYTF GQRTYNAPRTF IGLV1-36\_NA\_IGLJ3 IGLV1-40\_NA\_IGLJ3 IGLV1-47\_NA\_IGLJ3 IGLV1-51\_NA\_IGLJ2 IGLV2-14\_NA\_IGLJ1 IGLV2-23\_NA\_IGLJ2 IGLV2-8\_NA\_IGLJ3 IGLV3-1\_NA\_IGLJ1 **IgL** IGLV3-1-1VA\_IGLJ1 IGLV3-19\_NA\_IGLJ2 IGLV3-21 NA IGLJ2 IGLVI-70\_NA\_IGLJ2 CAAWDDGLSGWVF CAAWDDSLSDWVF CAAWDDSLSGWVF CAAWDNSLSGWVF CCSYAGSSTSVVF CGTWDSSLSAVVF CNSRDSSGNHLVF CNSRDSSGNHYVF CQAWDSSTYVF CQSYDSSLSGWVF CQVWDSSSDHNVVF CQVWHDNSDQVVF CSSYAGSNNWVF CSSYTSSSLYVF CSTCDYSLSVYVVF CSTGDYSLSVYVVF IgL CDR3aa CSTRDYSLSVYVVF CSTWDYGLSVYVVF CSTWDYSISVYVVF CSTWDYSLNVYVVF CSTWDYSLSVHVVF CSTWDYSLSVYEVE CSTWDYSLSVYVVF CSTWDYSLSVYVVL CSTWDYSPSVYVVF CTAWDDSLSGWVF CTAWDNSLSGWVF CVAWDDSLSGWVF GAAWDDSLSGWVF YAAWDDSLSGWVF