

## Coding regions of IGHV3-30/3-30-3/3-30-5/3-33 genes identified in sample P1\_\_I49:

IGHV3-30\*19\_T189C  
IGHV3-33\*01  
IGHV3-30-3\*01  
IGHV3-30\*18

10 20 30 40 50 60 70 80

90 100 110 120 130 140 150 160

170 180 190 200 210 220 230 240

250 260 270 280 290

IGHV3-30\*19\_T189C  
IGHV3-33\*01  
IGHV3-30-3\*01  
IGHV3-30\*18

IGHV3-30\*19\_T189C  
IGHV3-33\*01  
IGHV3-30-3\*01  
IGHV3-30\*18

IGHV3-30\*19\_T189C  
IGHV3-33\*01  
IGHV3-30-3\*01  
IGHV3-30\*18

Upstream sequence of alleles of IGHV3-30/3-30-3/3-33 in samples of data set P1 of VDJbase (DOI: 10.3389/fimmu.2021.730105) (IGHV3-30\*19\_T189C is named IGHV3-30\*19\_S5956 in this panel):

IGHV3-30\*19\_S5956-A|1  
IGHV3-30-3\*01-A|69  
IGHV3-30\*04-A|6  
IGHV3-30\*04-B|12  
IGHV3-30\*01-A|11  
IGHV3-30\*02-A|3  
IGHV3-30\*02-B|6  
IGHV3-30\*02\_S4989-A|1  
IGHV3-30\*03-A|5  
IGHV3-30\*04\_S7005-A|1  
IGHV3-30\*18-A|92  
IGHV3-33\*01-A|96  
IGHV3-33\*01\_S3418-A|1

10 20 30 40 50 60 70

80 90 100 110 120 130

IGHV3-30\*19\_S5956-A|1  
IGHV3-30-3\*01-A|69  
IGHV3-30\*04-A|6  
IGHV3-30\*04-B|12  
IGHV3-30\*01-A|11  
IGHV3-30\*02-A|3  
IGHV3-30\*02-B|6  
IGHV3-30\*02\_S4989-A|1  
IGHV3-30\*03-A|5  
IGHV3-30\*04\_S7005-A|1  
IGHV3-30\*18-A|92  
IGHV3-33\*01-A|96  
IGHV3-33\*01\_S3418-A|1

## OGRDBplots illustration of 3'-bases in rearrangements associated to IGHV3-30\*19\_T189C:

