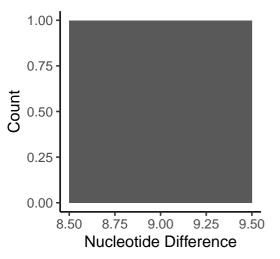


IGHV5-51*03 IGHV4-59*01 IGHV1/OR15-9*01 264 sequences assigned 908 sequences assigned 141 (15.5%) exact matches, in which: 1 sequences assigned 55 (20.8%) exact matches, in which: No exact matches. 55 unique CDR3 140 unique CDR3 6 unique J 7 unique J 1.00 0.75 40 100 Count Count 0.50 20 50 0.25 0.00 0 0 0.50 0.75 1.00 1.25 1.50 5 10 15 20 0 0 5 10 15 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV4-61*01 IGHV6-1*01 IGHV5-10-1*03 287 sequences assigned 639 sequences assigned 79 (12.4%) exact matches, in which: 618 sequences assigned 185 (29.9%) exact matches, in which: 21 (7.3%) exact matches, in which: 20 unique CDR3 78 unique CDR3 181 unique CDR3 4 unique J 5 unique J 7 unique J 25 80 20 150 60 15 Count Count 100 40 10 50 20 5 0 0 0 20 5 10 15 0 10 15 20 10 15 20 0 5 0 5 **Nucleotide Difference** Nucleotide Difference Nucleotide Difference IGHV5-51*01 IGHV4-61*02 IGHV3/OR16-6*02 880 sequences assigned 748 sequences assigned sequences assigned 94 (10.7%) exact matches, in which: 134 (17.9%) exact matches, in which: 1 (100%) exact matches, in which: 94 unique CDR3 124 unique CDR3 unique CDR3 6 unique J 6 unique J 1 unique J 1.00 75 0.75 100 Count 50 0.50 50 25 0.25 0.00 0 0 -0.250.00 0.25 0.50 -0.505 10 15 20 0 5 10 15 20 **Nucleotide Difference Nucleotide Difference Nucleotide Difference**

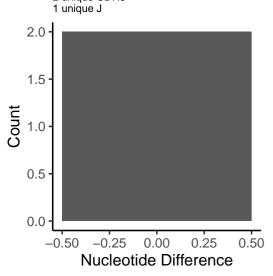
IGHV3/OR16-9*01

1 sequences assigned No exact matches.



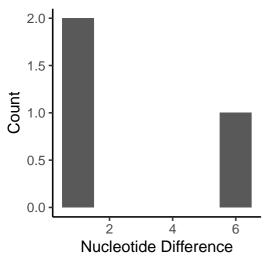
IGHV7-4-1*01

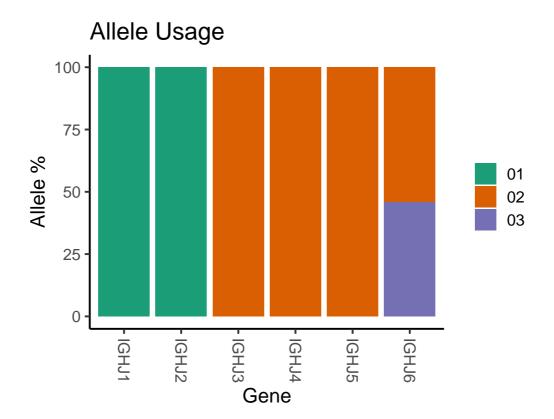
2 sequences assigned 2 (100%) exact matches, in which: 2 unique CDR3 1 unique J



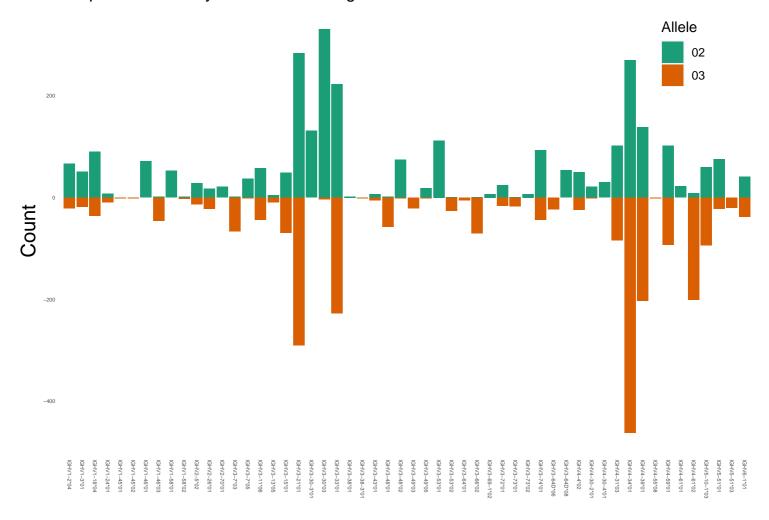
IGHV7-4-1*02

3 sequences assigned No exact matches.





Sequence Count by IGHJ6 allele usage



/arning – no inferred sequences found.	
Varning – no inferred sequences found.	
Varning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
larning – no inferred sequences found.	
larning – no inferred sequences found.	
larning – no inferred sequences found.	
Varning – no inferred sequences found.	
larning – no inferred sequences found.	
Varning – no inferred sequences found.	
Varning – no inferred sequences found.	
Varning – no inferred sequences found.	
/arning – no inferred sequences found.	
Varning – no inferred sequences found.	
/arning – no inferred sequences found.	
Varning – no inferred sequences found.	
Varning – no inferred sequences found.	
/arning – no inferred sequences found.	
Varning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	
/arning – no inferred sequences found.	