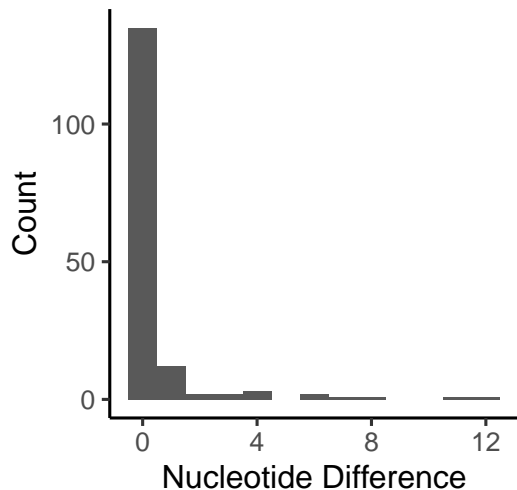


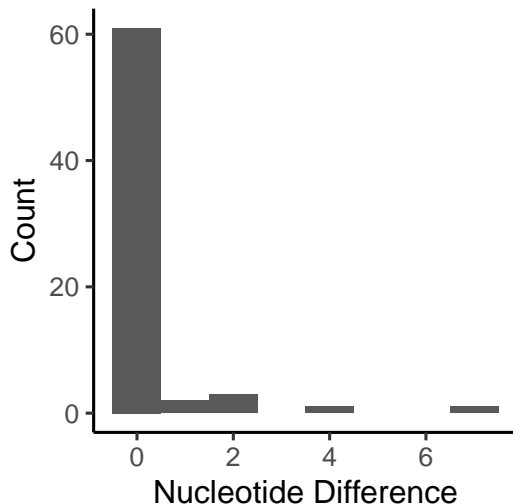
IGHV1-2*02

160 sequences assigned
135 (84.4%) exact matches, in which:
135 unique CDR3
6 unique J



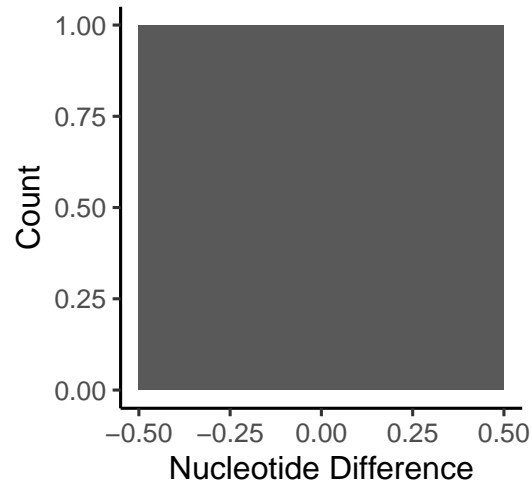
IGHV1-8*01

69 sequences assigned
61 (88.4%) exact matches, in which:
61 unique CDR3
4 unique J



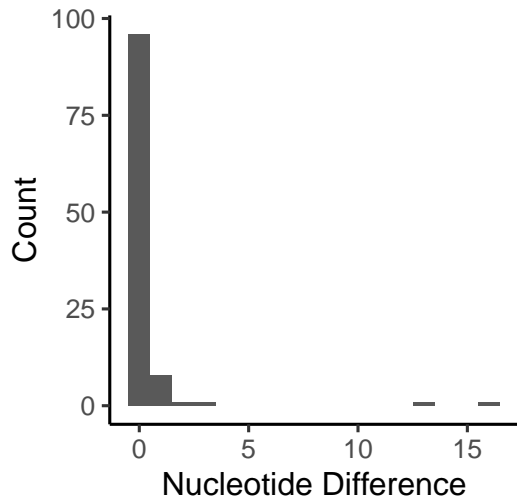
IGHV1-45*02

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



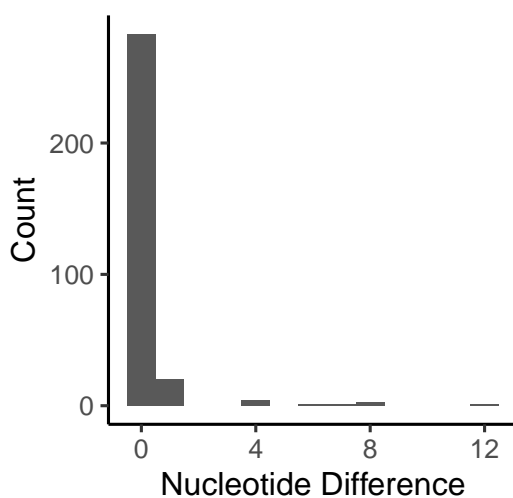
IGHV1-2*06

109 sequences assigned
96 (88.1%) exact matches, in which:
96 unique CDR3
5 unique J



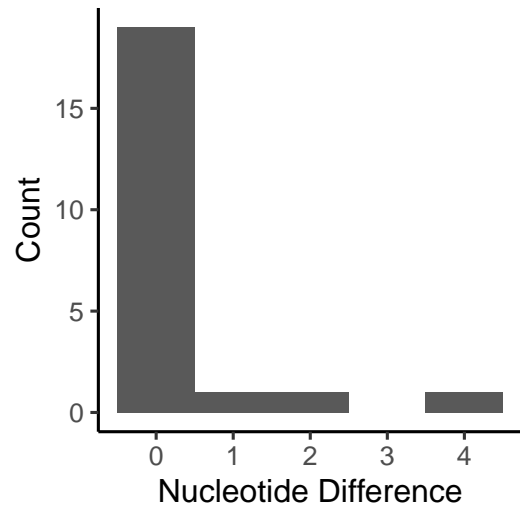
IGHV1-18*01

316 sequences assigned
283 (89.6%) exact matches, in which:
283 unique CDR3
7 unique J



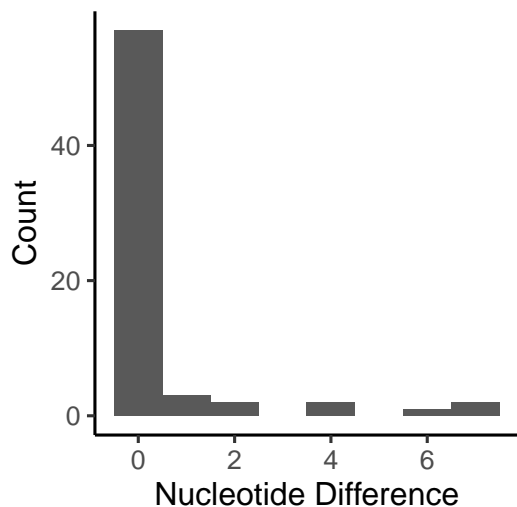
IGHV1-46*01

22 sequences assigned
19 (86.4%) exact matches, in which:
19 unique CDR3
5 unique J



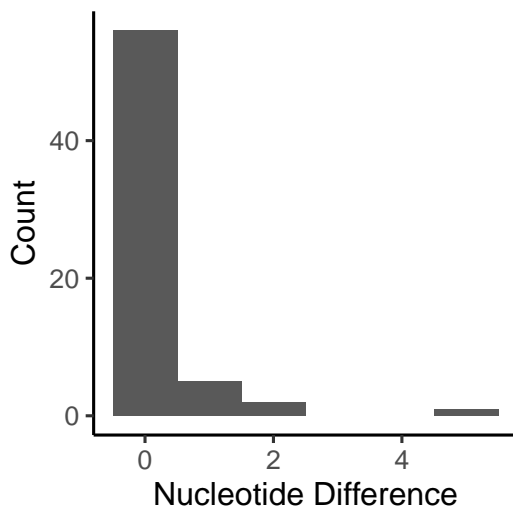
IGHV1-3*01

67 sequences assigned
57 (85.1%) exact matches, in which:
57 unique CDR3
5 unique J



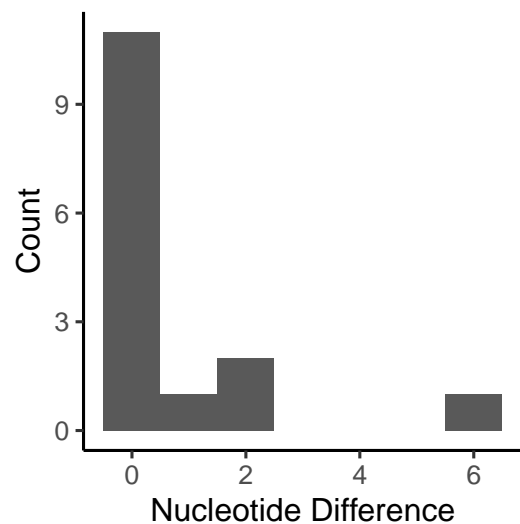
IGHV1-24*01

64 sequences assigned
56 (87.5%) exact matches, in which:
56 unique CDR3
6 unique J



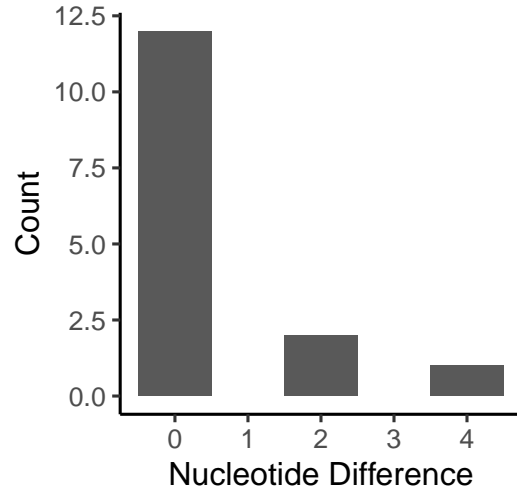
IGHV1-46*03

15 sequences assigned
11 (73.3%) exact matches, in which:
11 unique CDR3
5 unique J



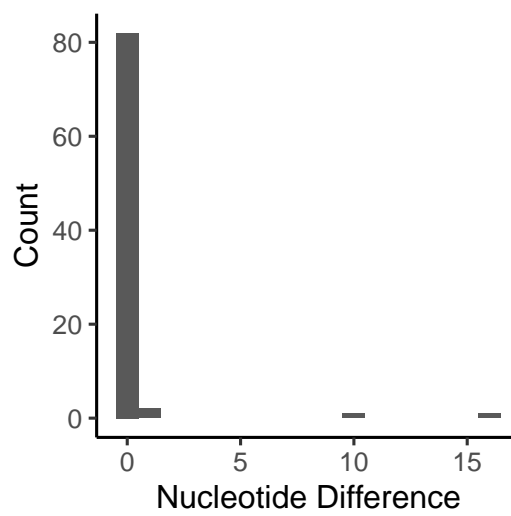
IGHV1-58*01

15 sequences assigned
12 (80%) exact matches, in which:
12 unique CDR3
4 unique J



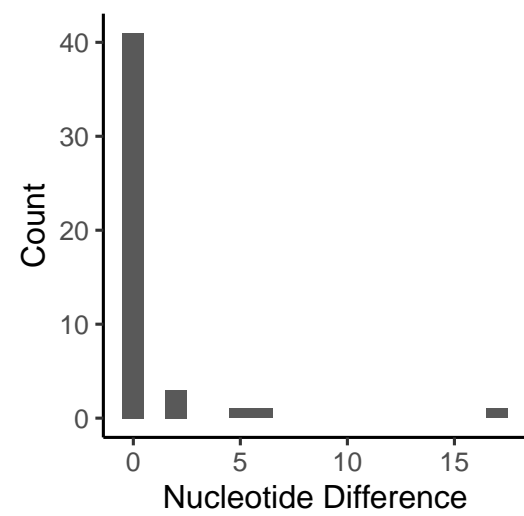
IGHV2-5*01

86 sequences assigned
82 (95.3%) exact matches, in which:
82 unique CDR3
6 unique J



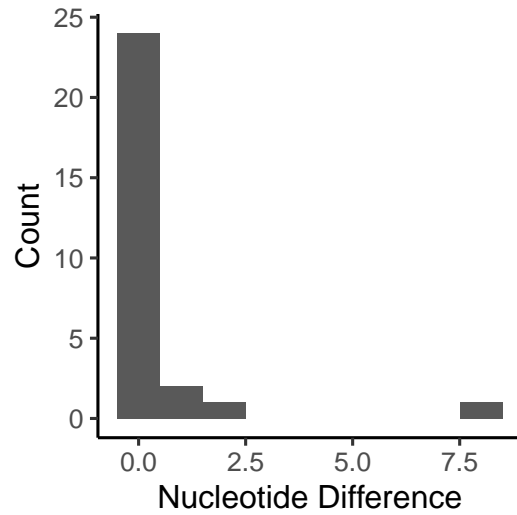
IGHV2-70*01

47 sequences assigned
41 (87.2%) exact matches, in which:
41 unique CDR3
6 unique J



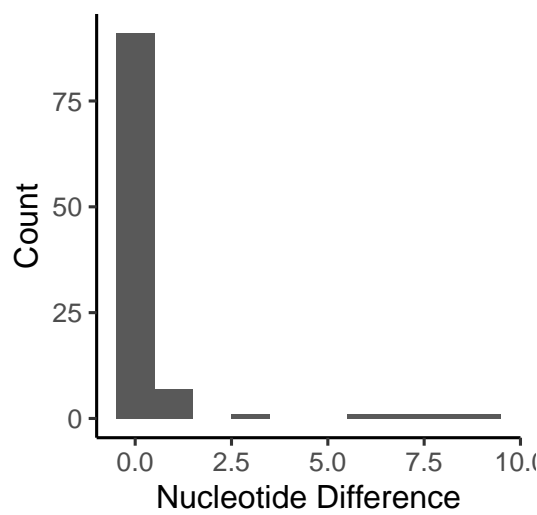
IGHV1-69-2*01

28 sequences assigned
24 (85.7%) exact matches, in which:
24 unique CDR3
6 unique J



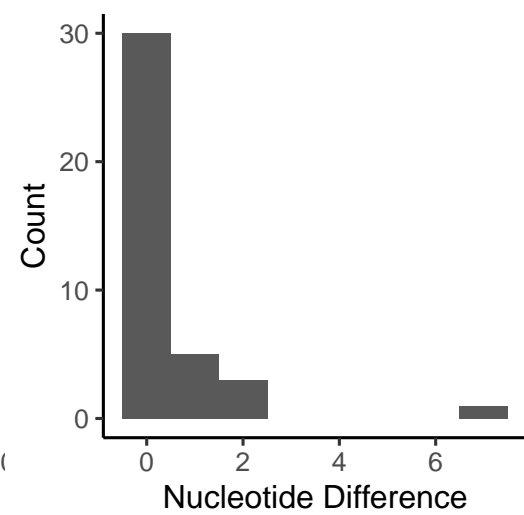
IGHV2-5*02

103 sequences assigned
91 (88.3%) exact matches, in which:
91 unique CDR3
7 unique J



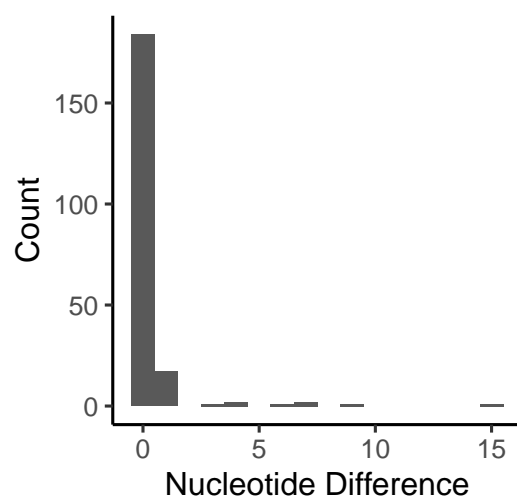
IGHV3-7*01

40 sequences assigned
30 (75%) exact matches, in which:
30 unique CDR3
6 unique J



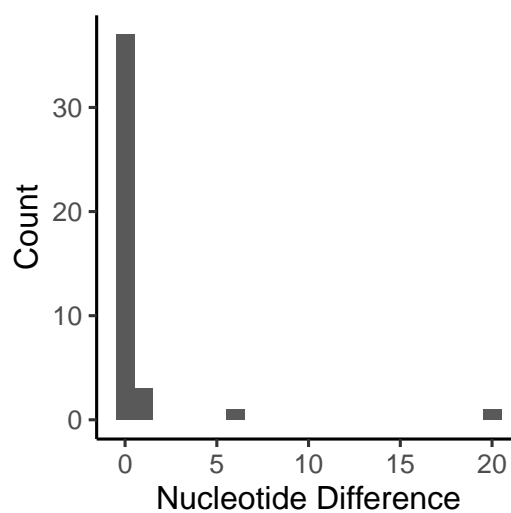
IGHV1-69*06

209 sequences assigned
184 (88%) exact matches, in which:
184 unique CDR3
7 unique J



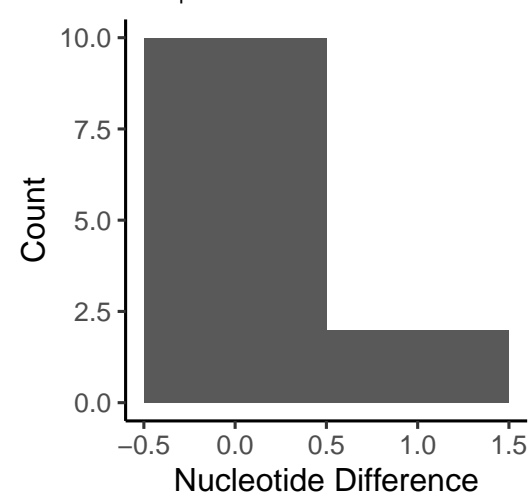
IGHV2-26*01

42 sequences assigned
37 (88.1%) exact matches, in which:
37 unique CDR3
6 unique J



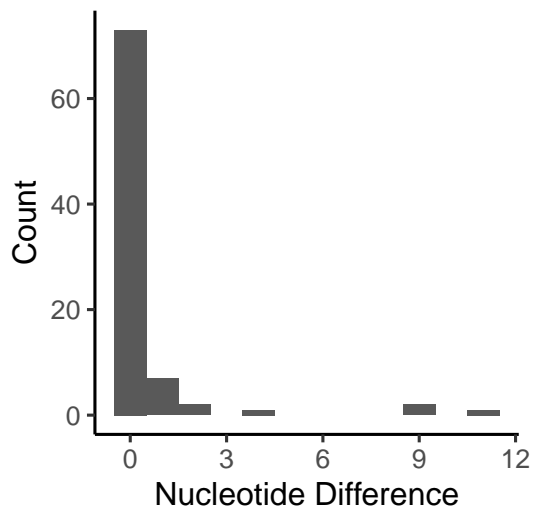
IGHV3-7*04

12 sequences assigned
10 (83.3%) exact matches, in which:
10 unique CDR3
4 unique J



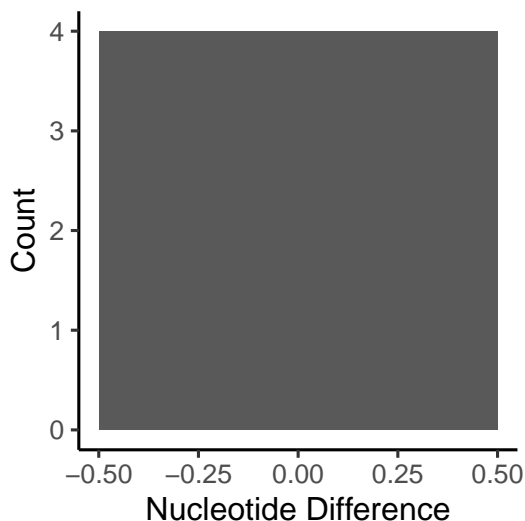
IGHV3-9*01

86 sequences assigned
73 (84.9%) exact matches, in which:
73 unique CDR3
6 unique J



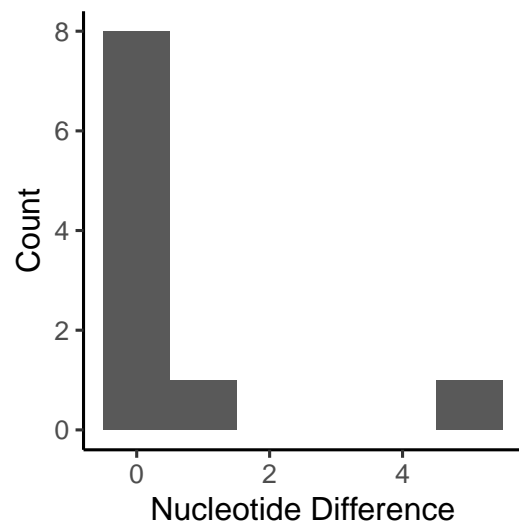
IGHV3-13*01

4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
2 unique J



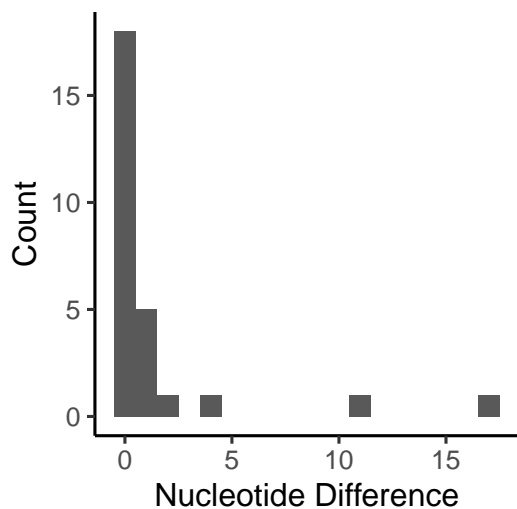
IGHV3-20*01

10 sequences assigned
8 (80%) exact matches, in which:
8 unique CDR3
4 unique J



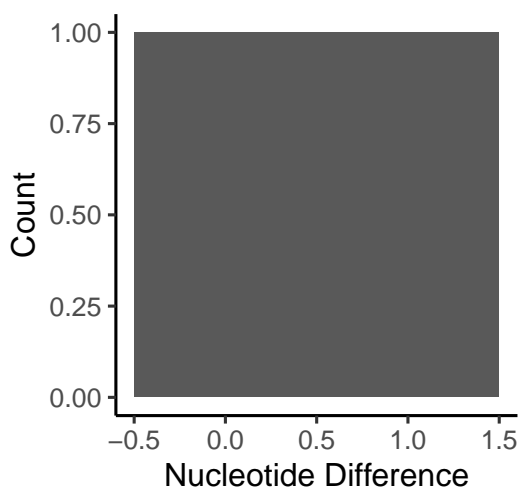
IGHV3-11*01

27 sequences assigned
18 (66.7%) exact matches, in which:
18 unique CDR3
5 unique J



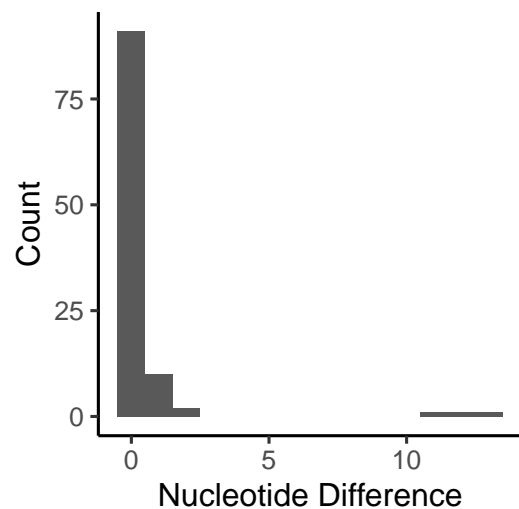
IGHV3-13*05

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



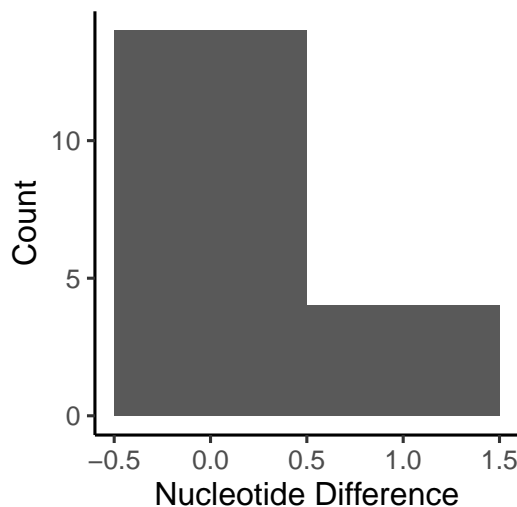
IGHV3-21*01

106 sequences assigned
91 (85.8%) exact matches, in which:
91 unique CDR3
6 unique J



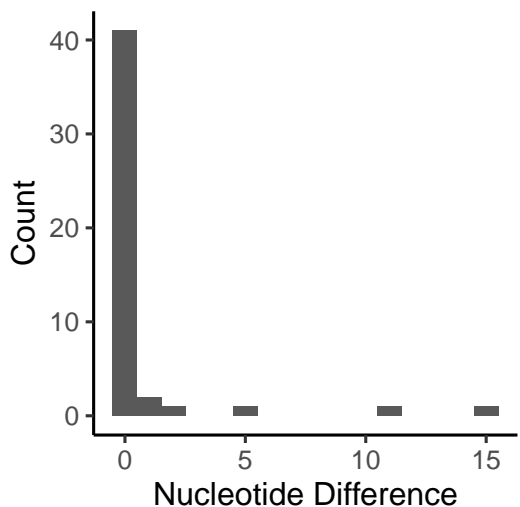
IGHV3-11*06

18 sequences assigned
14 (77.8%) exact matches, in which:
14 unique CDR3
3 unique J



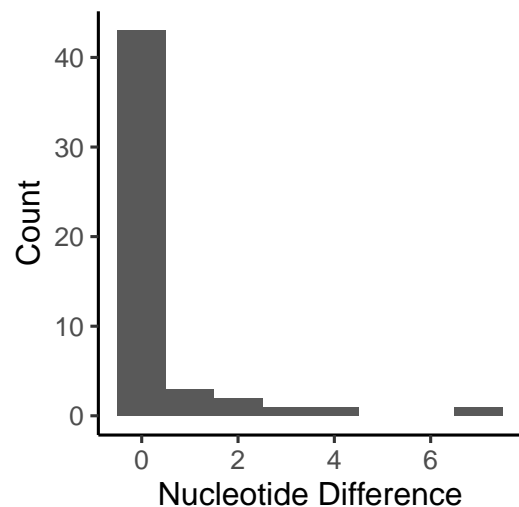
IGHV3-15*01

47 sequences assigned
41 (87.2%) exact matches, in which:
41 unique CDR3
7 unique J



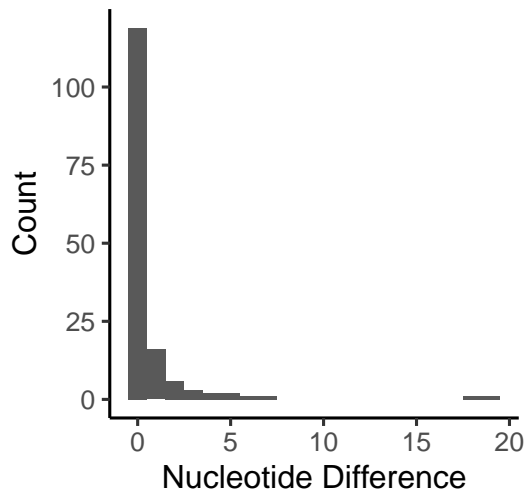
IGHV3-30*01

51 sequences assigned
43 (84.3%) exact matches, in which:
43 unique CDR3
5 unique J



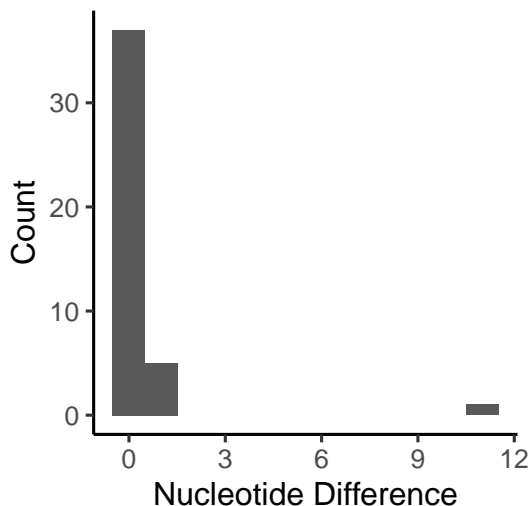
IGHV3–33*01

152 sequences assigned
119 (78.3%) exact matches, in which:
119 unique CDR3
7 unique J



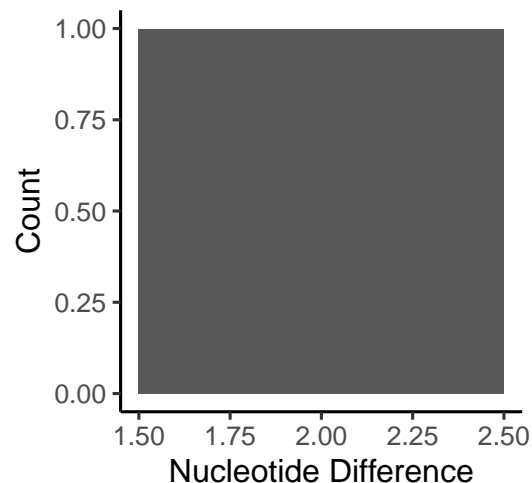
IGHV3–48*02

44 sequences assigned
37 (84.1%) exact matches, in which:
37 unique CDR3
7 unique J



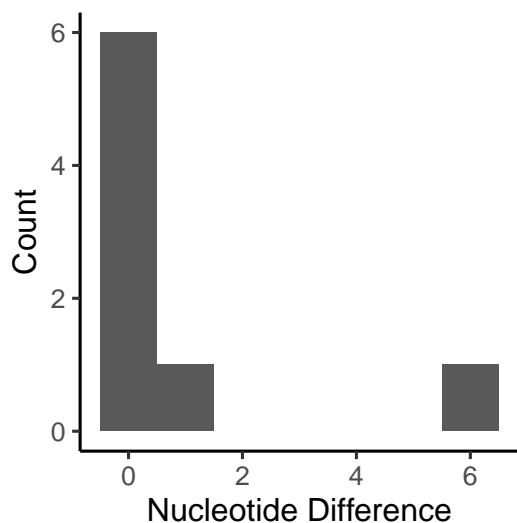
IGHV3–66*03

1 sequences assigned
No exact matches.



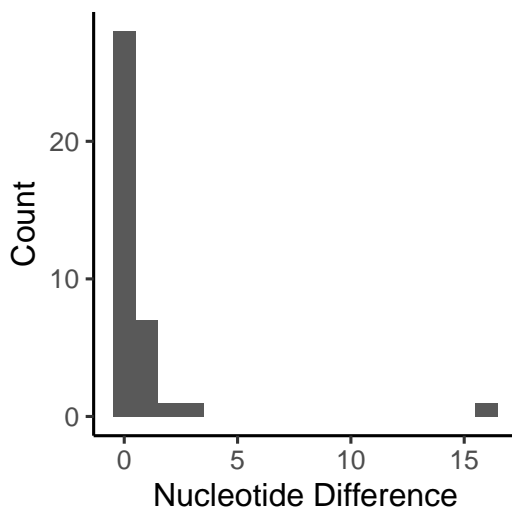
IGHV3–43*01

8 sequences assigned
6 (75%) exact matches, in which:
6 unique CDR3
2 unique J



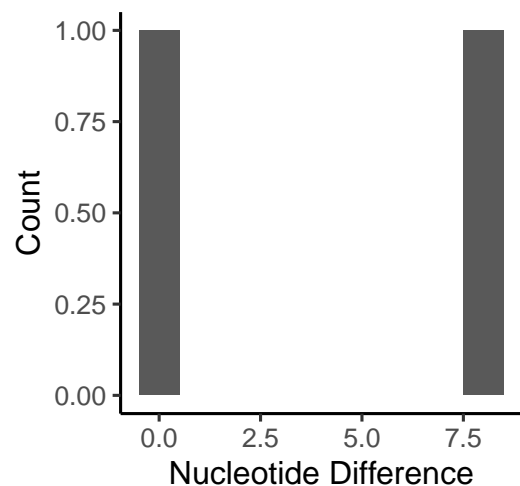
IGHV3–49*05

38 sequences assigned
28 (73.7%) exact matches, in which:
28 unique CDR3
5 unique J



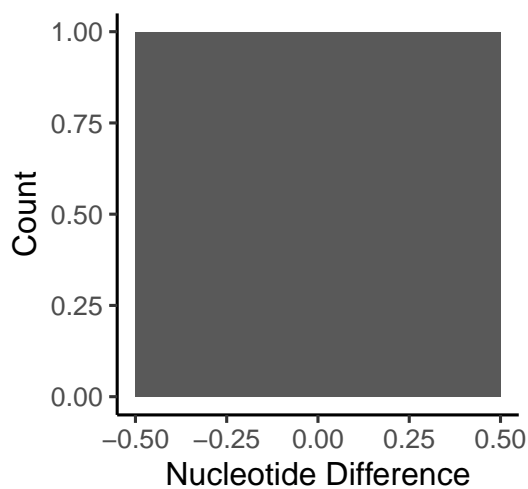
IGHV3–72*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



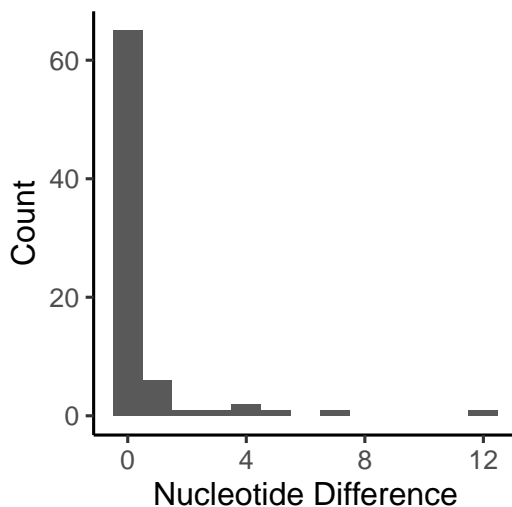
IGHV3–47*02

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



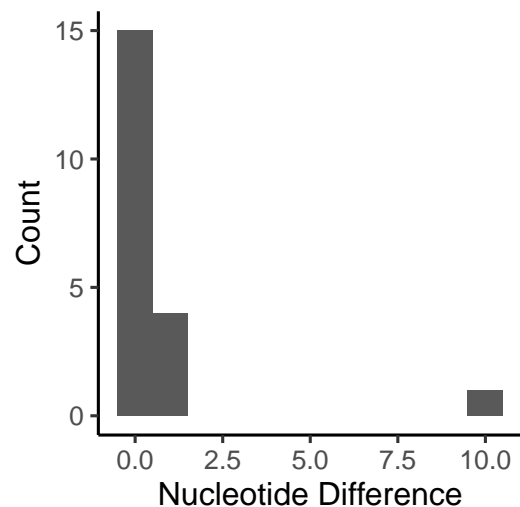
IGHV3–53*01

78 sequences assigned
65 (83.3%) exact matches, in which:
65 unique CDR3
7 unique J



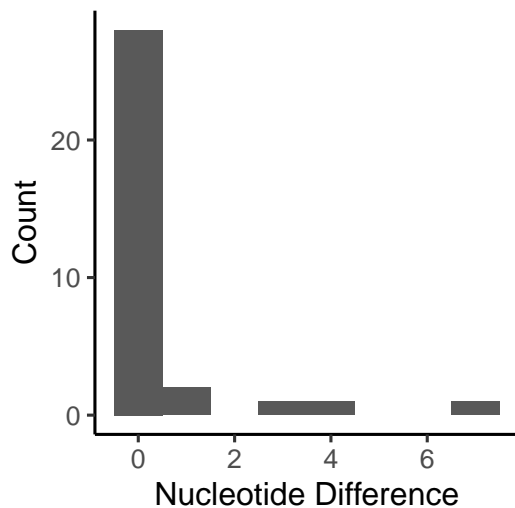
IGHV3–73*02

20 sequences assigned
15 (75%) exact matches, in which:
15 unique CDR3
5 unique J



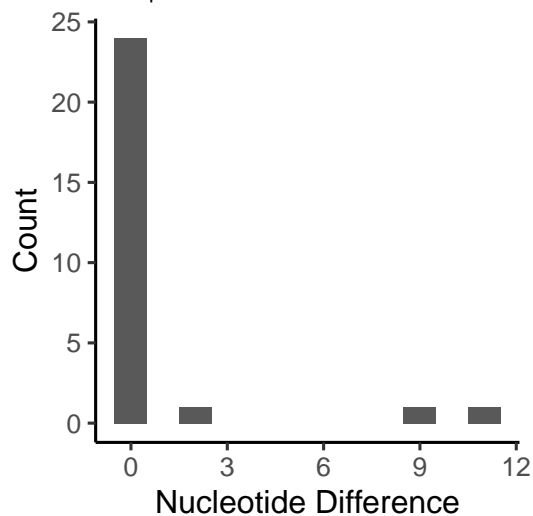
IGHV3-74*01

33 sequences assigned
28 (84.8%) exact matches, in which:
28 unique CDR3
5 unique J



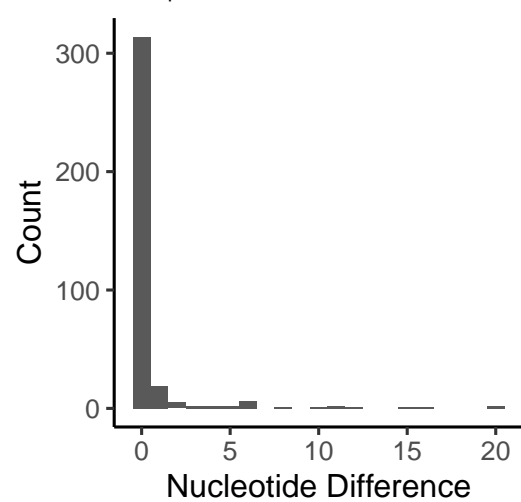
IGHV4-4*07

28 sequences assigned
24 (85.7%) exact matches, in which:
24 unique CDR3
5 unique J



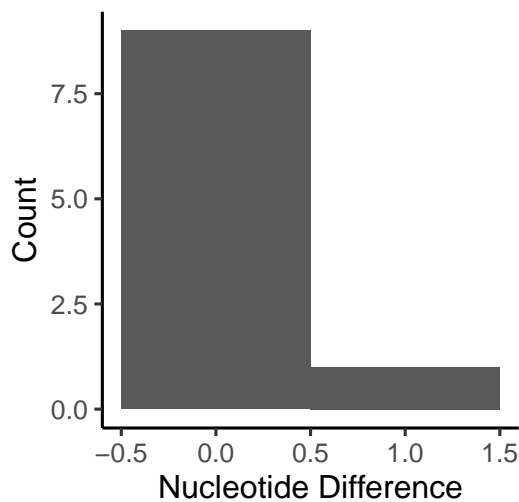
IGHV4-39*01

360 sequences assigned
314 (87.2%) exact matches, in which:
313 unique CDR3
6 unique J



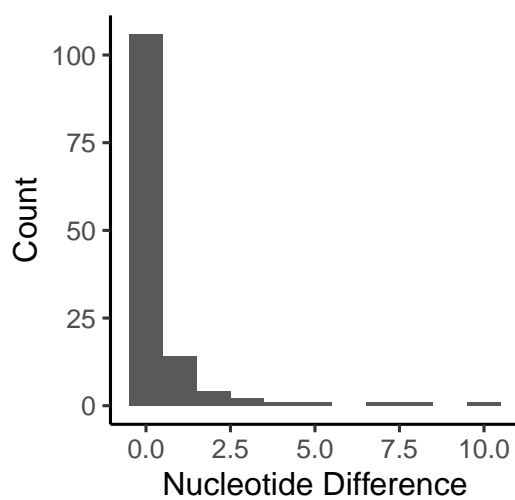
IGHV3-64D*06

10 sequences assigned
9 (90%) exact matches, in which:
9 unique CDR3
4 unique J



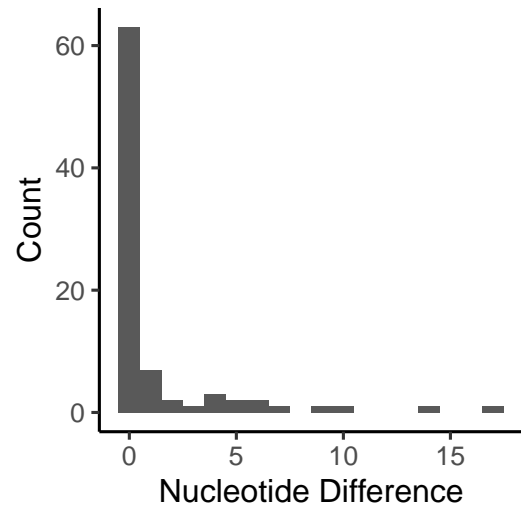
IGHV4-31*03

131 sequences assigned
106 (80.9%) exact matches, in which:
105 unique CDR3
7 unique J



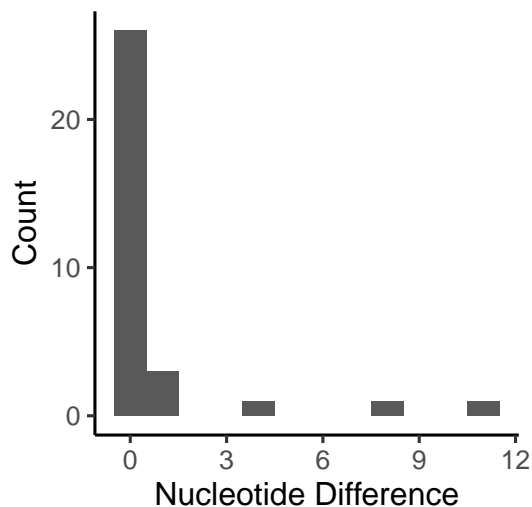
IGHV4-59*01

85 sequences assigned
63 (74.1%) exact matches, in which:
63 unique CDR3
6 unique J



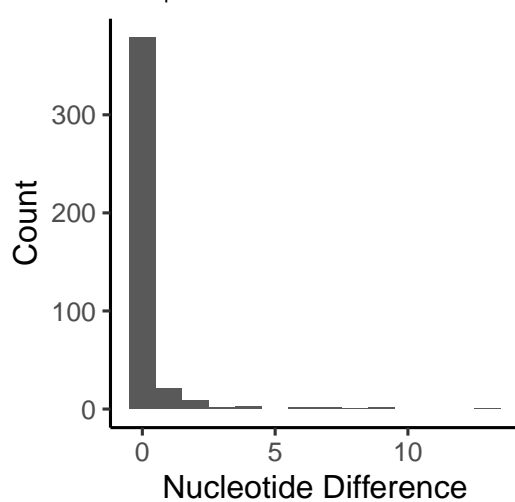
IGHV4-4*02

32 sequences assigned
26 (81.2%) exact matches, in which:
26 unique CDR3
6 unique J



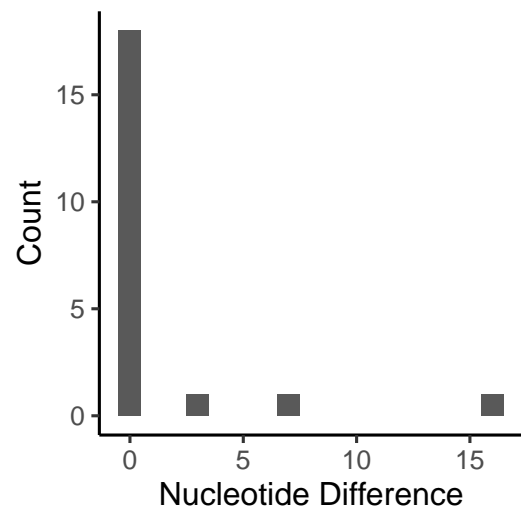
IGHV4-34*01

422 sequences assigned
379 (89.8%) exact matches, in which:
378 unique CDR3
7 unique J



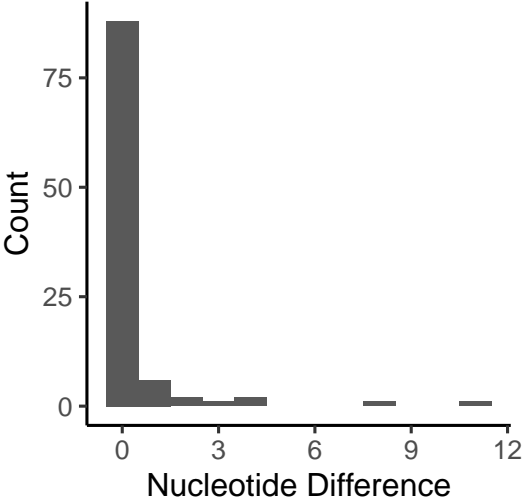
IGHV4-61*01

22 sequences assigned
18 (81.8%) exact matches, in which:
18 unique CDR3
7 unique J



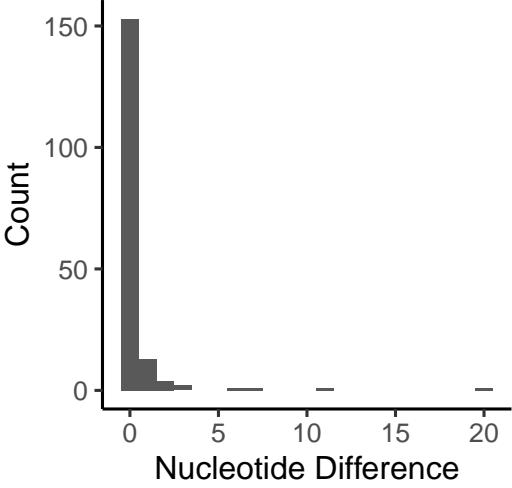
IGHV5-10-1*03

101 sequences assigned
88 (87.1%) exact matches, in which:
86 unique CDR3
6 unique J



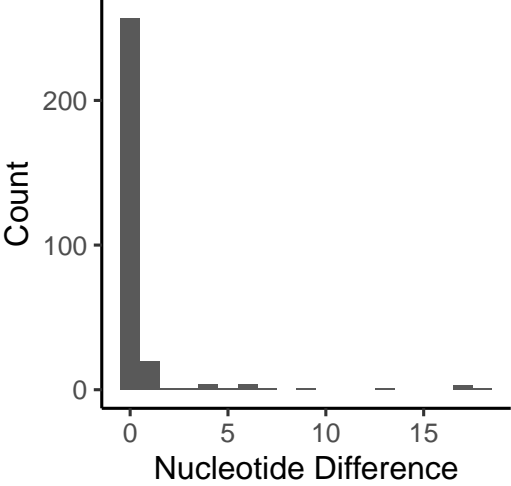
IGHV7-4-1*02

176 sequences assigned
153 (86.9%) exact matches, in which:
153 unique CDR3
6 unique J



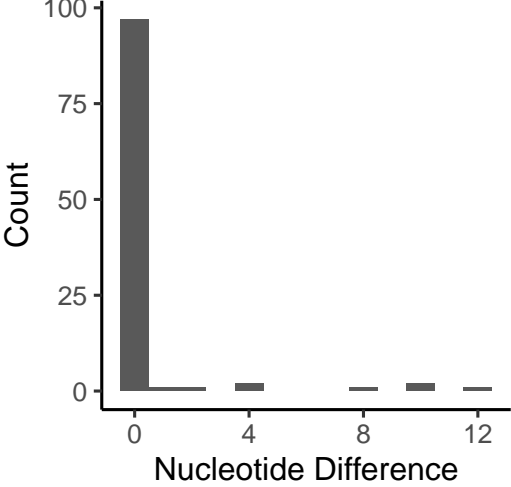
IGHV5-51*01

295 sequences assigned
257 (87.1%) exact matches, in which:
257 unique CDR3
7 unique J

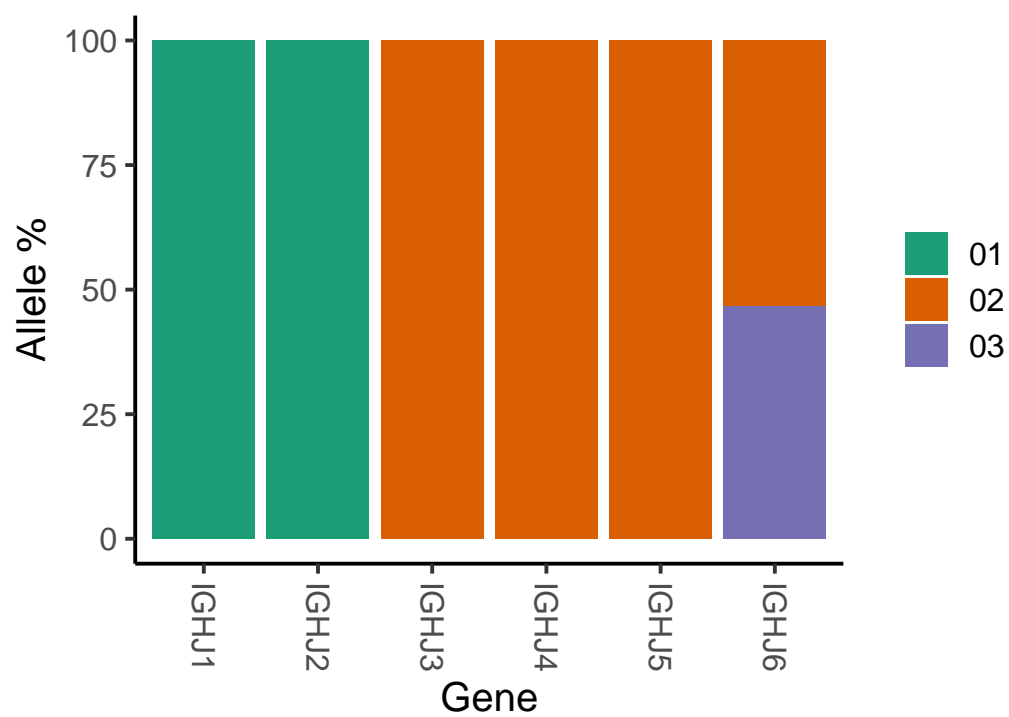


IGHV6-1*01

105 sequences assigned
97 (92.4%) exact matches, in which:
97 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



