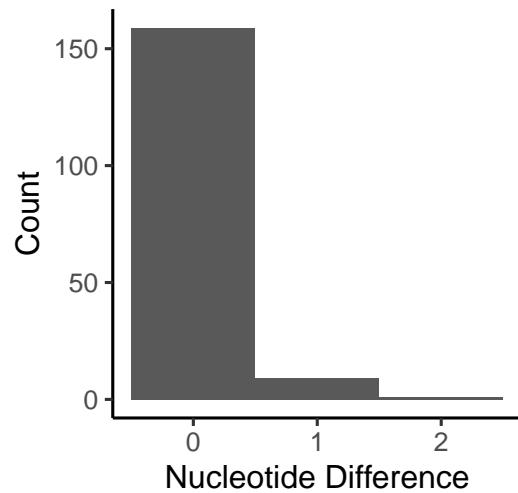


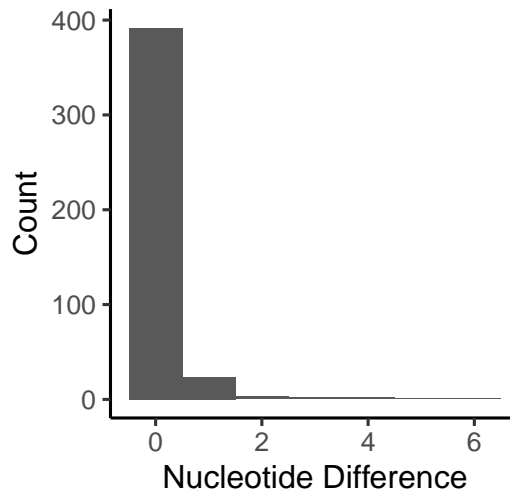
IGHV1-2*04

169 sequences assigned
159 (94.1%) exact matches, in which:
159 unique CDR3
7 unique J



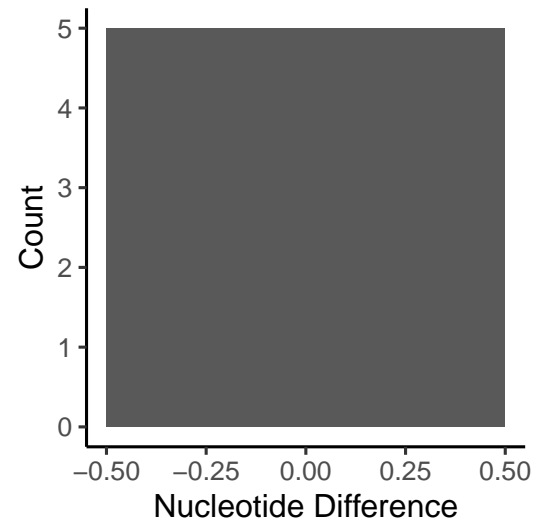
IGHV1-18*01

425 sequences assigned
392 (92.2%) exact matches, in which:
392 unique CDR3
7 unique J



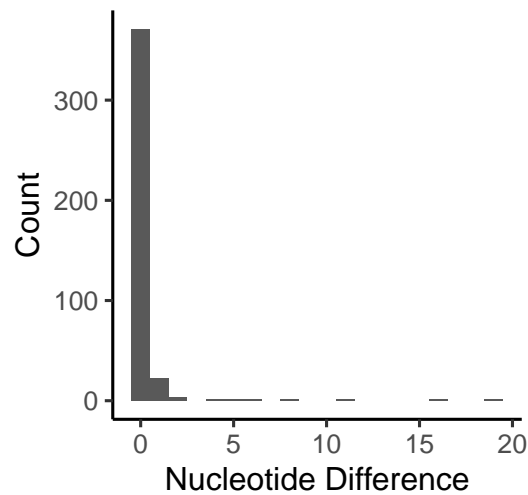
IGHV1-45*02

5 sequences assigned
5 (100%) exact matches, in which:
5 unique CDR3
3 unique J



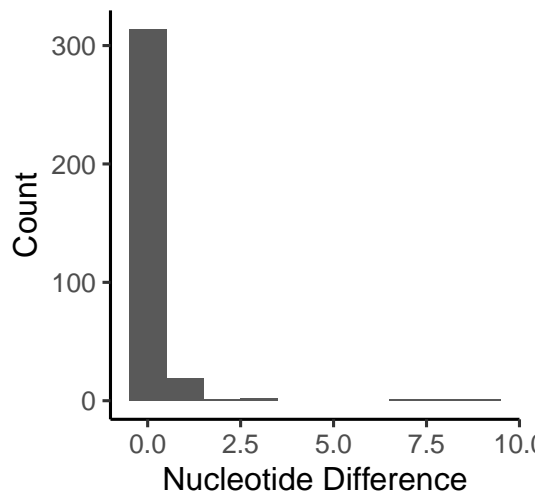
IGHV1-3*01

404 sequences assigned
371 (91.8%) exact matches, in which:
371 unique CDR3
7 unique J



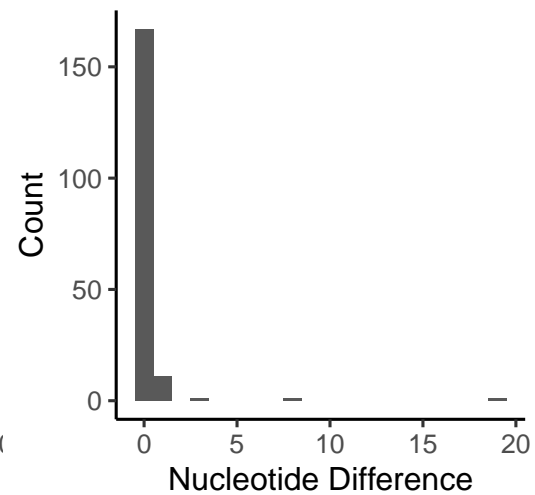
IGHV1-18*04

339 sequences assigned
314 (92.6%) exact matches, in which:
313 unique CDR3
6 unique J



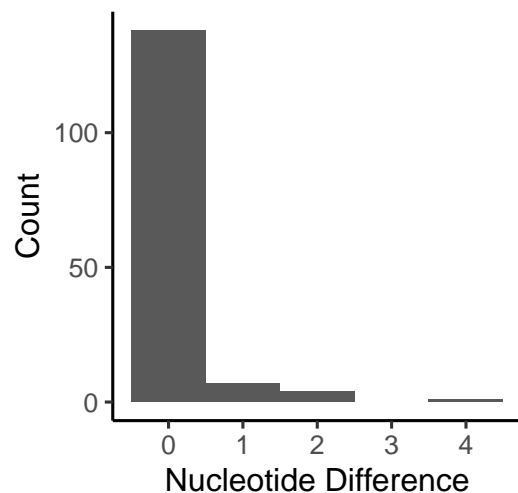
IGHV1-46*01

181 sequences assigned
167 (92.3%) exact matches, in which:
167 unique CDR3
7 unique J



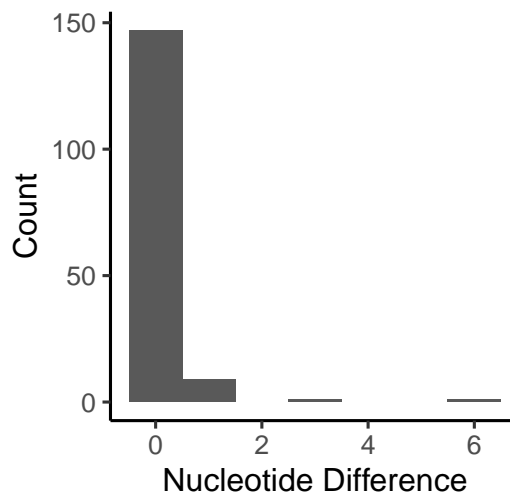
IGHV1-8*01

150 sequences assigned
138 (92%) exact matches, in which:
138 unique CDR3
6 unique J



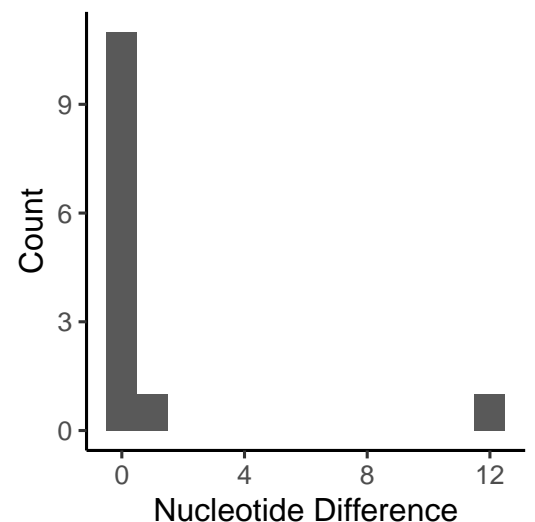
IGHV1-24*01

158 sequences assigned
147 (93%) exact matches, in which:
147 unique CDR3
7 unique J



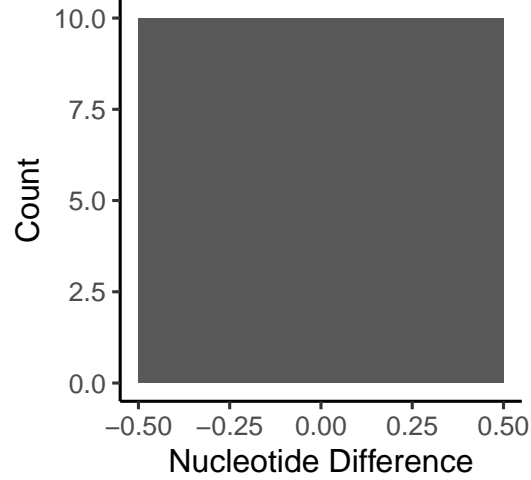
IGHV1-58*01

13 sequences assigned
11 (84.6%) exact matches, in which:
11 unique CDR3
5 unique J



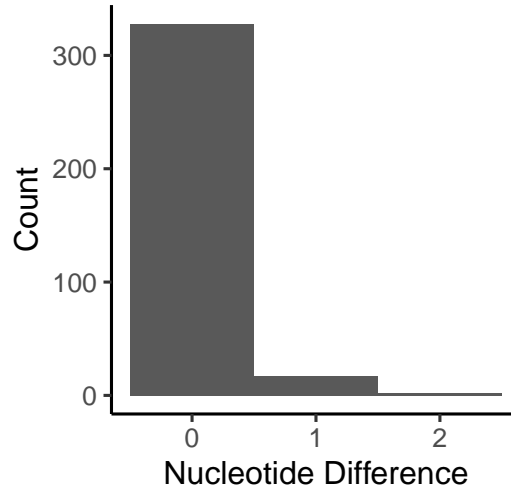
IGHV1–58*02

10 sequences assigned
10 (100%) exact matches, in which:
10 unique CDR3
3 unique J



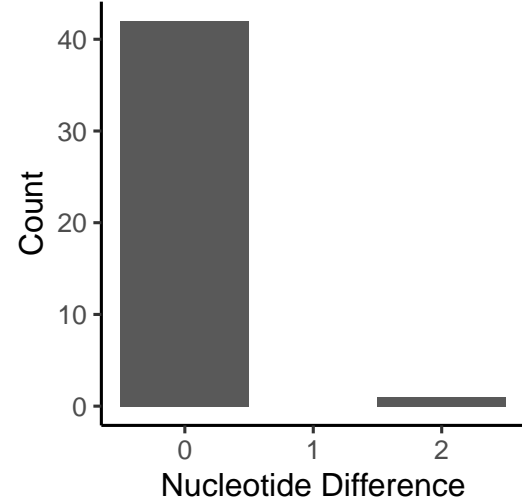
IGHV2–5*02

347 sequences assigned
328 (94.5%) exact matches, in which:
327 unique CDR3
7 unique J



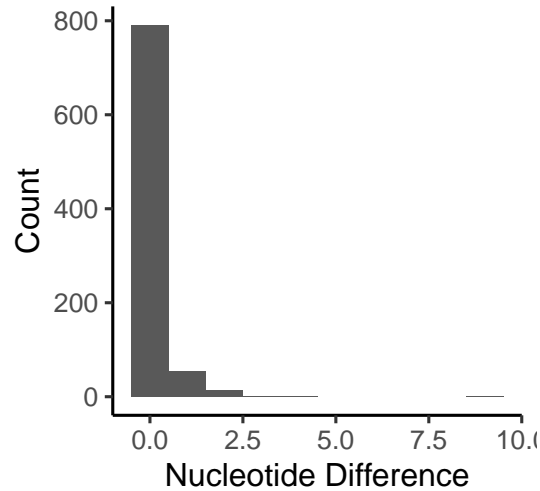
IGHV2–70*15

43 sequences assigned
42 (97.7%) exact matches, in which:
42 unique CDR3
4 unique J



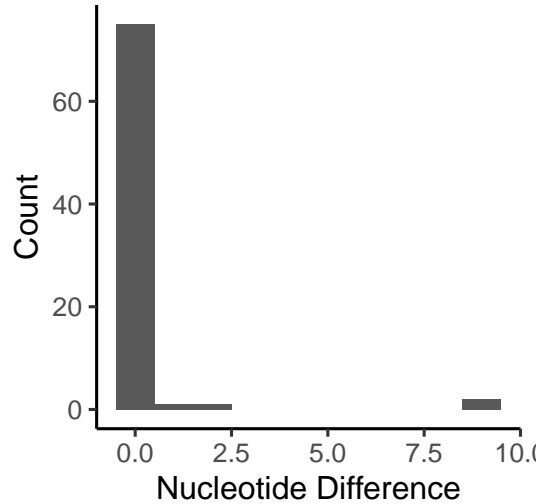
IGHV1–69*01

865 sequences assigned
791 (91.4%) exact matches, in which:
791 unique CDR3
7 unique J



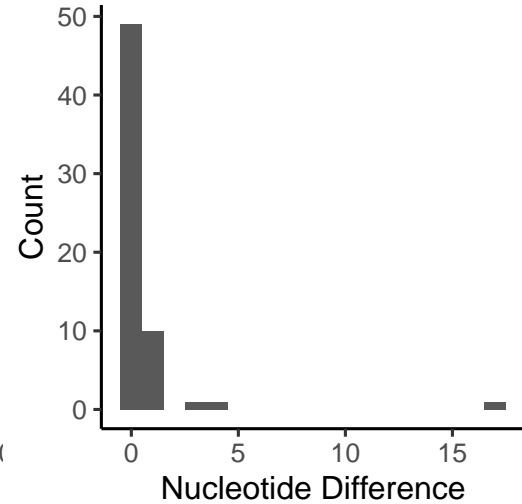
IGHV2–26*01

79 sequences assigned
75 (94.9%) exact matches, in which:
75 unique CDR3
6 unique J



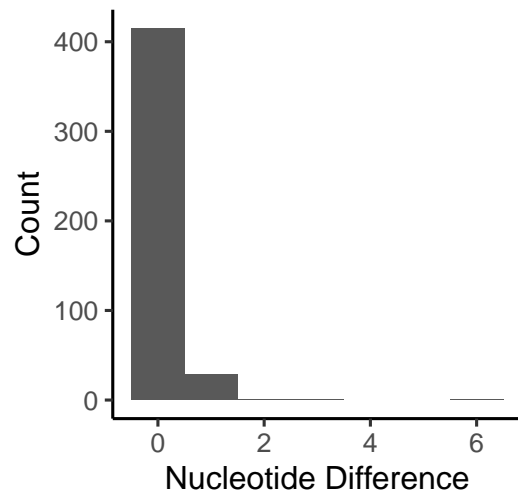
IGHV3–7*01

62 sequences assigned
49 (79%) exact matches, in which:
49 unique CDR3
5 unique J



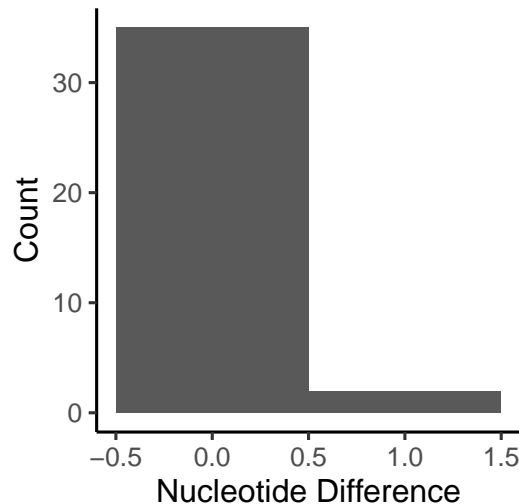
IGHV1–69*04

447 sequences assigned
415 (92.8%) exact matches, in which:
414 unique CDR3
7 unique J



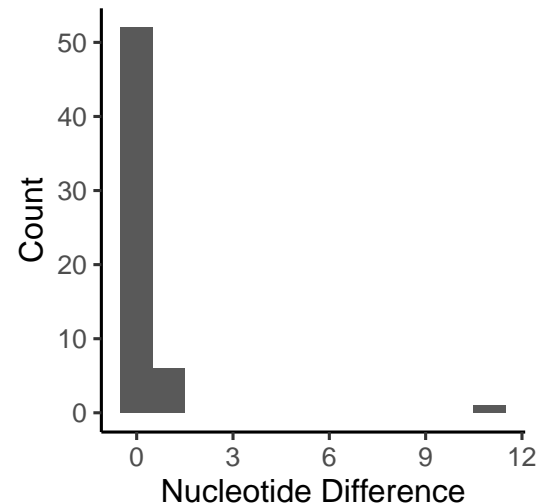
IGHV2–70*01

37 sequences assigned
35 (94.6%) exact matches, in which:
35 unique CDR3
4 unique J



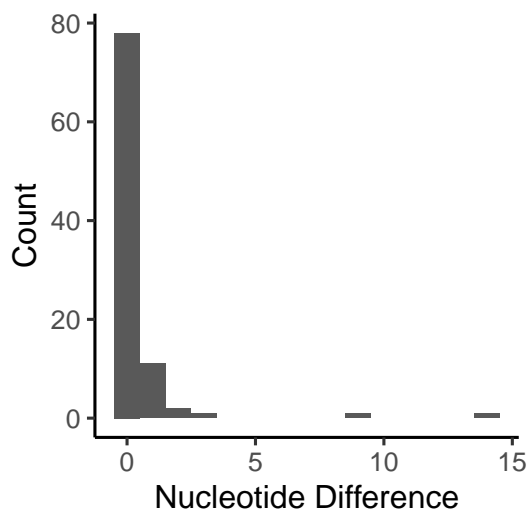
IGHV3–7*03

60 sequences assigned
52 (86.7%) exact matches, in which:
52 unique CDR3
5 unique J



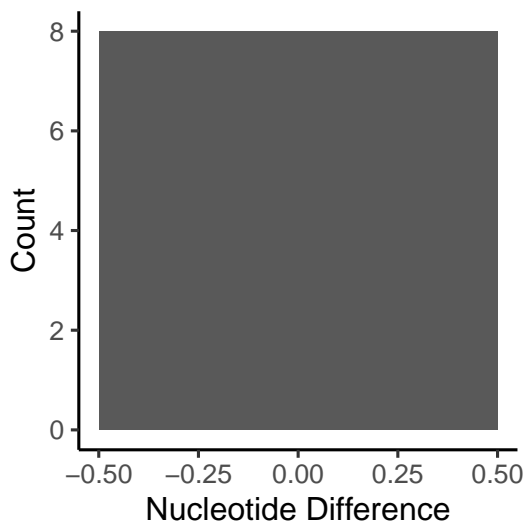
IGHV3-9*01

94 sequences assigned
78 (83%) exact matches, in which:
78 unique CDR3
5 unique J



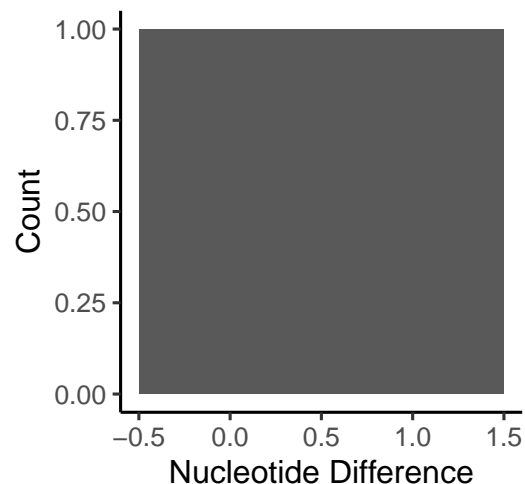
IGHV3-13*01

8 sequences assigned
8 (100%) exact matches, in which:
8 unique CDR3
5 unique J



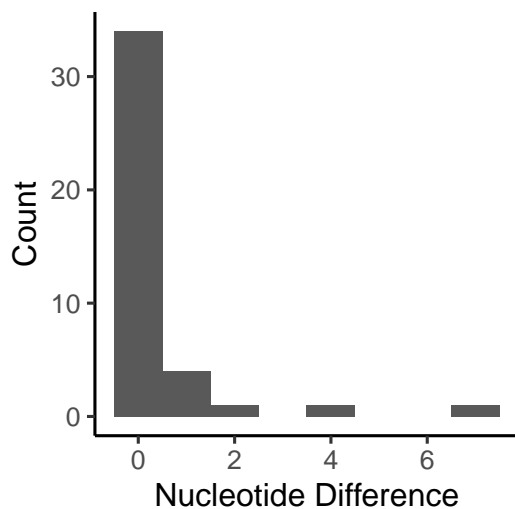
IGHV3-20*01

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



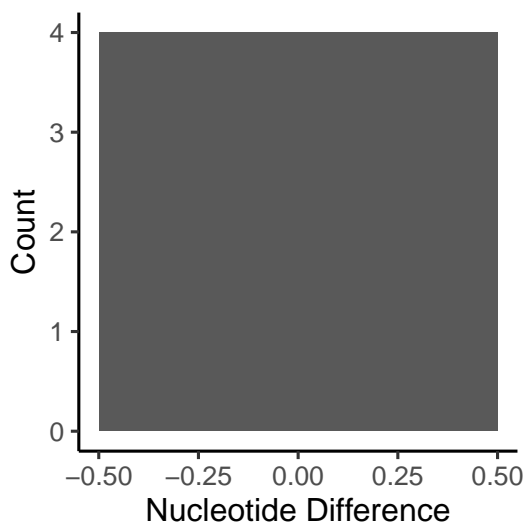
IGHV3-11*01

41 sequences assigned
34 (82.9%) exact matches, in which:
34 unique CDR3
4 unique J



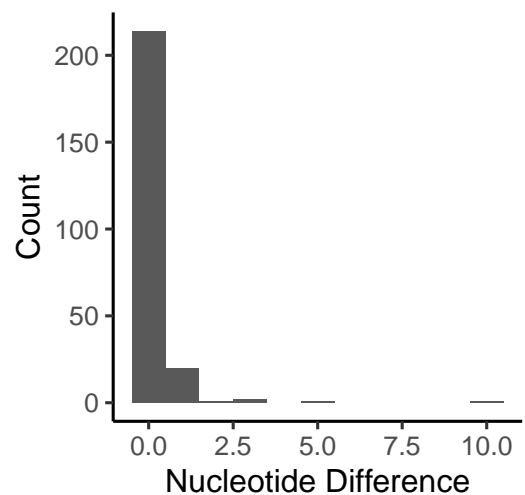
IGHV3-13*05

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



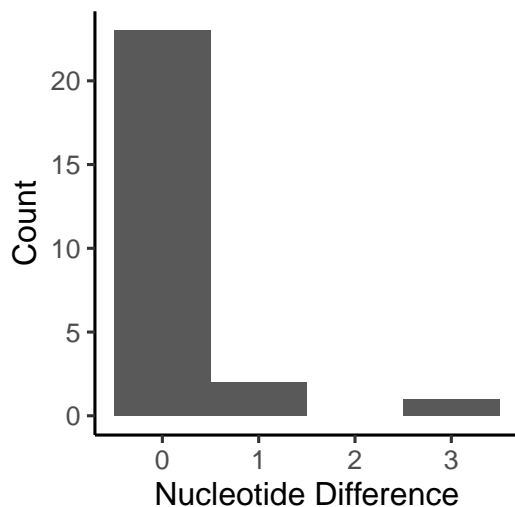
IGHV3-21*01

239 sequences assigned
214 (89.5%) exact matches, in which:
214 unique CDR3
7 unique J



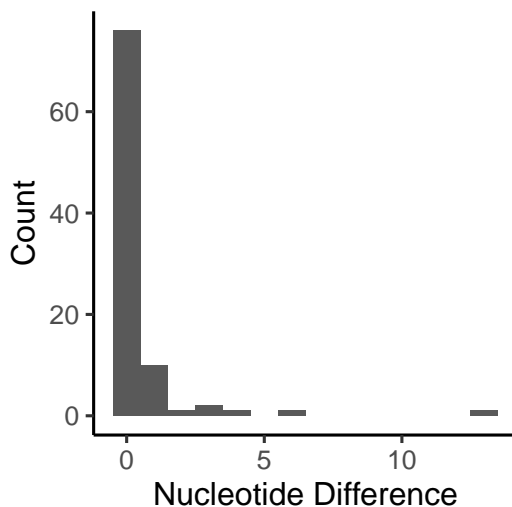
IGHV3-11*06

26 sequences assigned
23 (88.5%) exact matches, in which:
23 unique CDR3
5 unique J



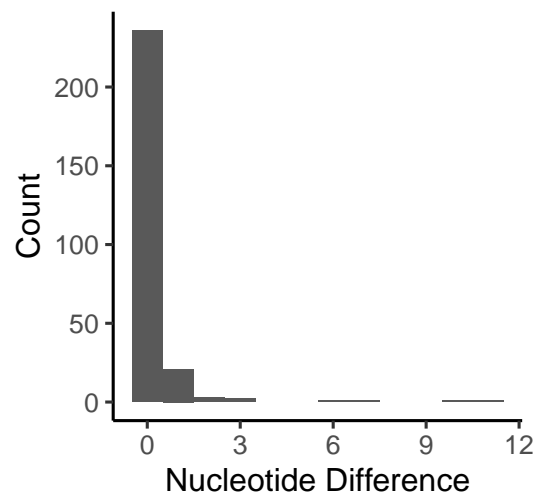
IGHV3-15*01

93 sequences assigned
76 (81.7%) exact matches, in which:
76 unique CDR3
6 unique J



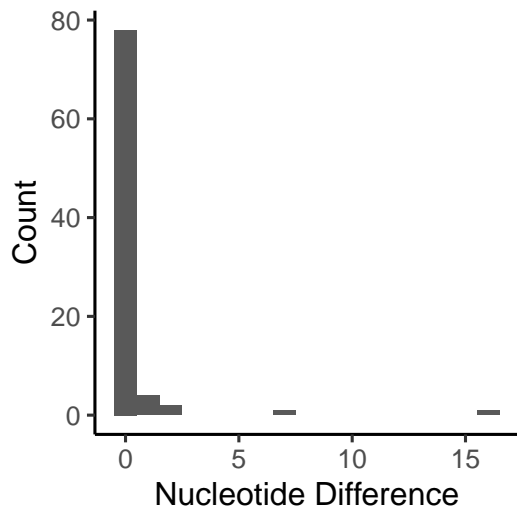
IGHV3-23*04

266 sequences assigned
236 (88.7%) exact matches, in which:
236 unique CDR3
7 unique J



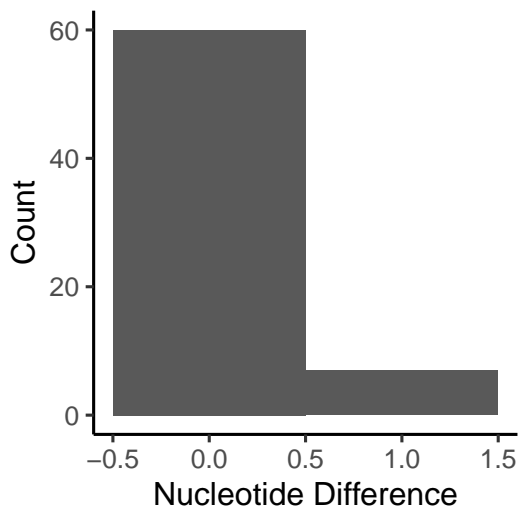
IGHV3-30*18

86 sequences assigned
78 (90.7%) exact matches, in which:
78 unique CDR3
5 unique J



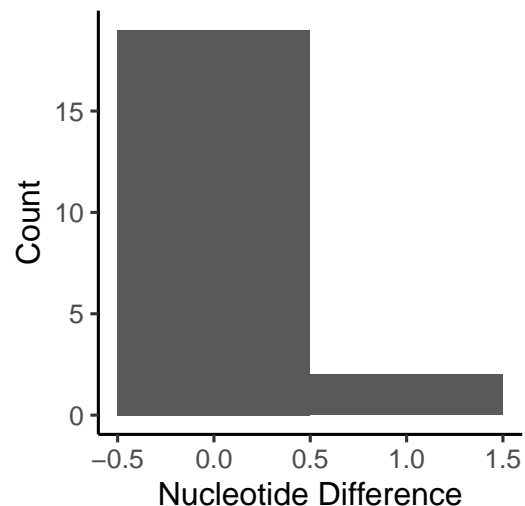
IGHV3-48*02

67 sequences assigned
60 (89.6%) exact matches, in which:
60 unique CDR3
6 unique J



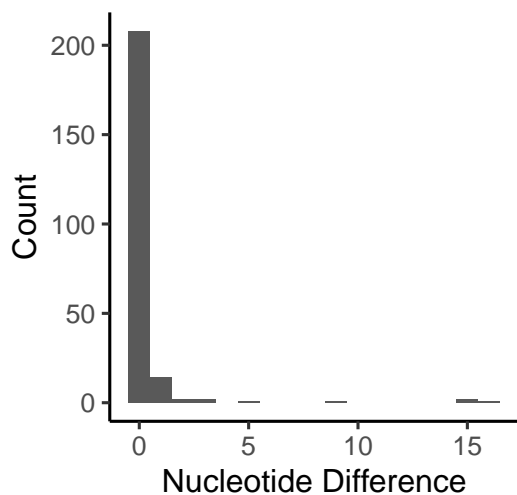
IGHV3-49*05

21 sequences assigned
19 (90.5%) exact matches, in which:
19 unique CDR3
4 unique J



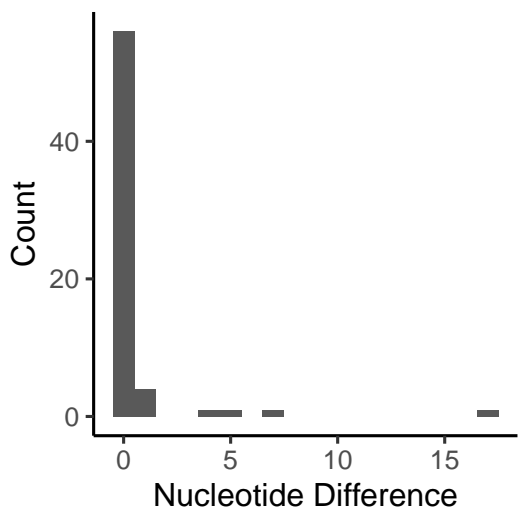
IGHV3-33*01

231 sequences assigned
208 (90%) exact matches, in which:
208 unique CDR3
7 unique J



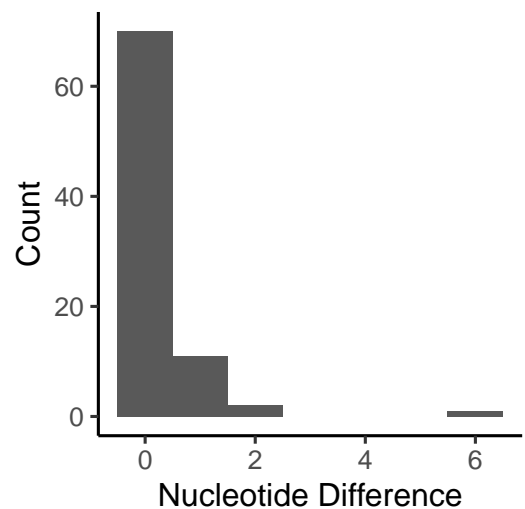
IGHV3-48*04

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



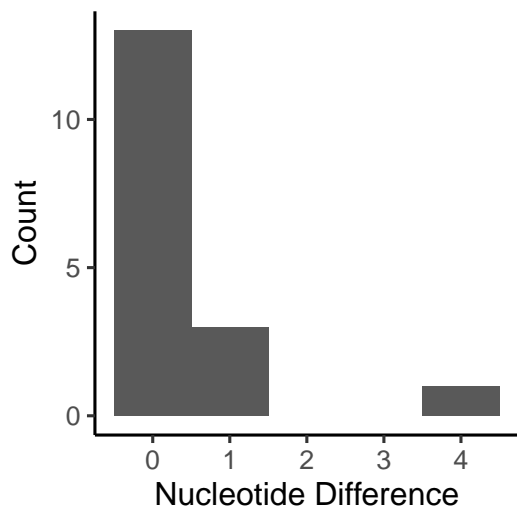
IGHV3-53*01

85 sequences assigned
70 (82.4%) exact matches, in which:
70 unique CDR3
6 unique J



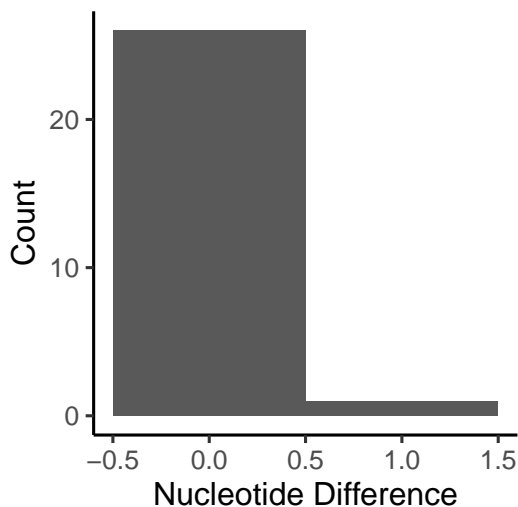
IGHV3-43*01

17 sequences assigned
13 (76.5%) exact matches, in which:
13 unique CDR3
4 unique J



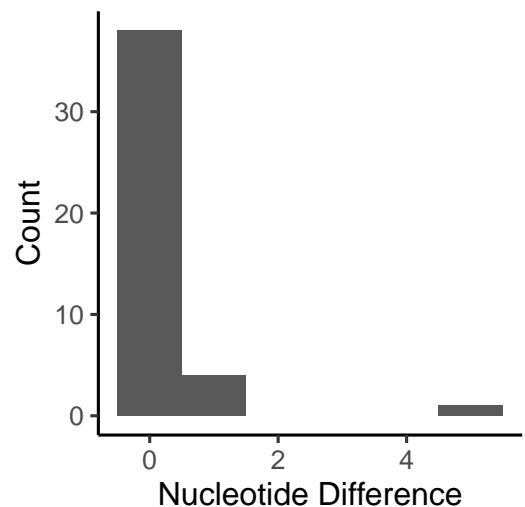
IGHV3-49*03

27 sequences assigned
26 (96.3%) exact matches, in which:
26 unique CDR3
6 unique J



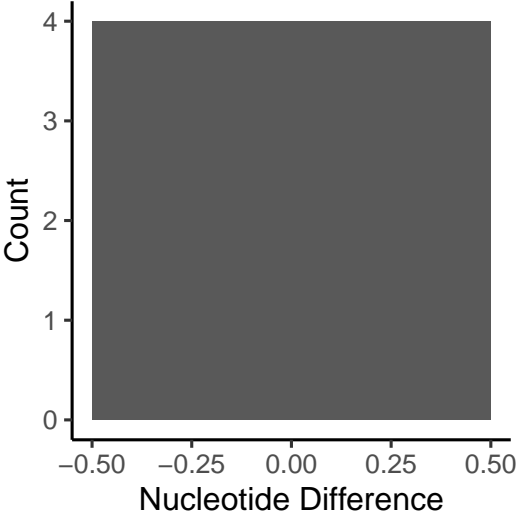
IGHV3-53*04

43 sequences assigned
38 (88.4%) exact matches, in which:
38 unique CDR3
6 unique J



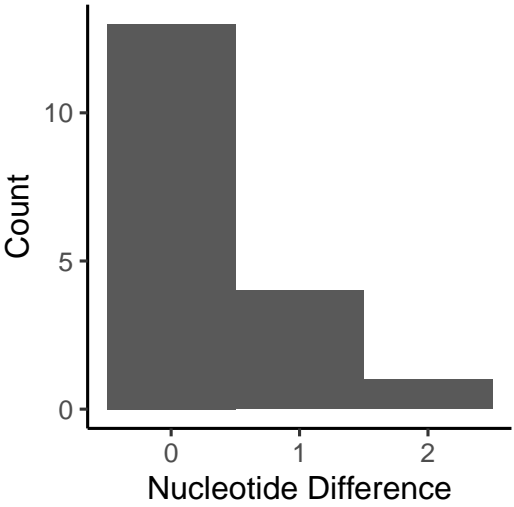
IGHV3-64*01

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



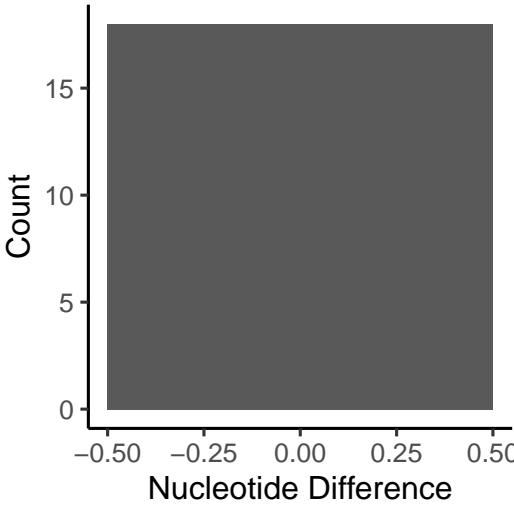
IGHV3-73*01

18 sequences assigned
13 (72.2%) exact matches, in which:
13 unique CDR3
5 unique J



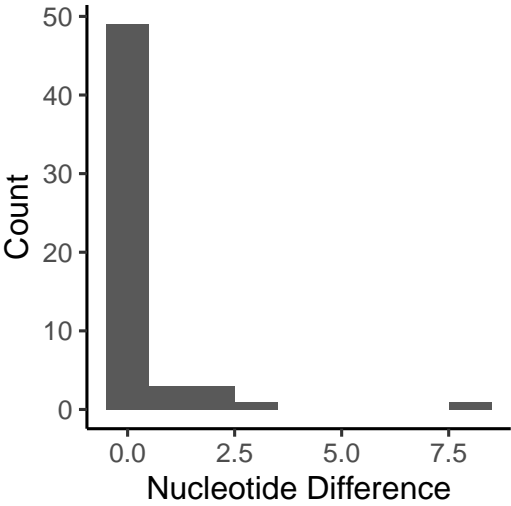
IGHV3-64D*06

18 sequences assigned
18 (100%) exact matches, in which:
18 unique CDR3
4 unique J



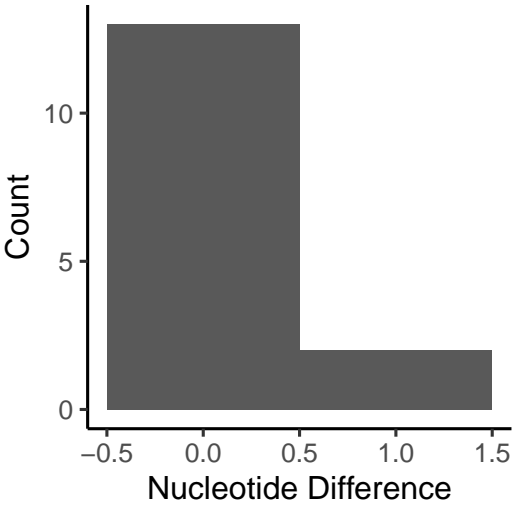
IGHV3-66*01

57 sequences assigned
49 (86%) exact matches, in which:
49 unique CDR3
4 unique J



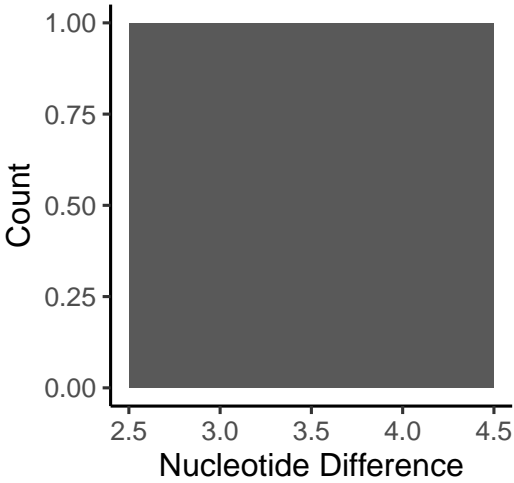
IGHV3-73*02

15 sequences assigned
13 (86.7%) exact matches, in which:
13 unique CDR3
5 unique J



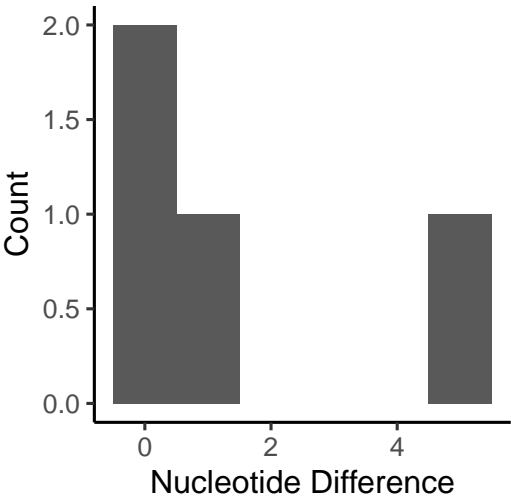
IGHV3-NL1*01

2 sequences assigned
No exact matches.



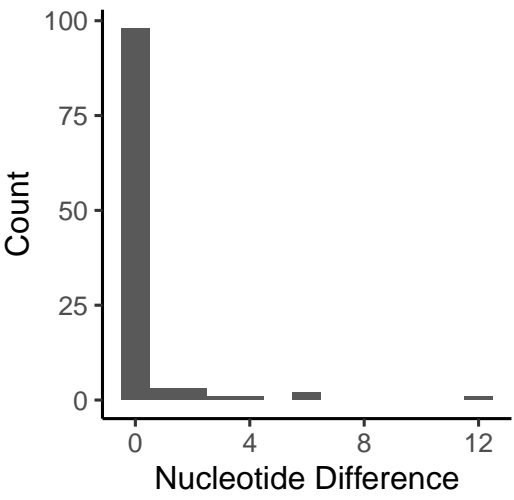
IGHV3-72*01

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



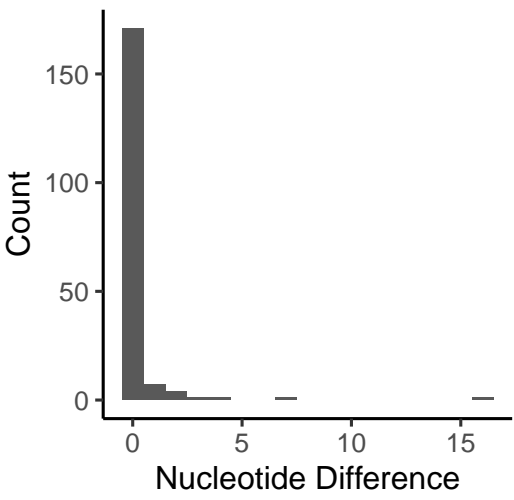
IGHV3-74*01

109 sequences assigned
98 (89.9%) exact matches, in which:
98 unique CDR3
7 unique J



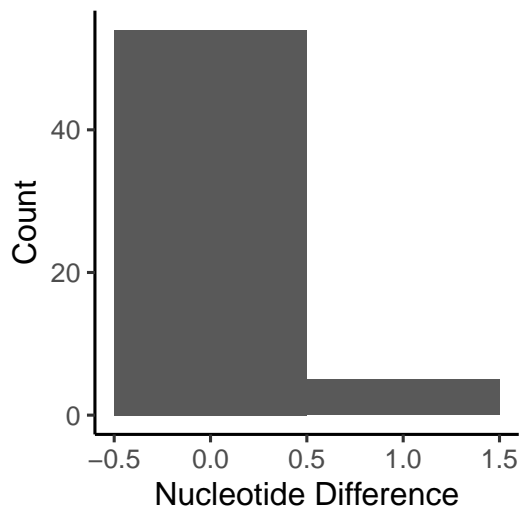
IGHV4-4*02

186 sequences assigned
171 (91.9%) exact matches, in which:
171 unique CDR3
7 unique J



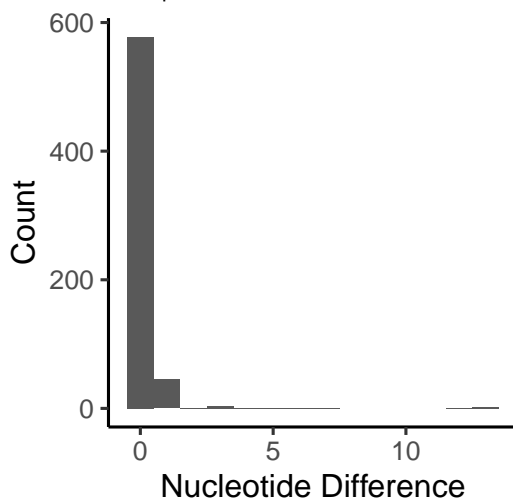
IGHV4-30-2*01

59 sequences assigned
54 (91.5%) exact matches, in which:
54 unique CDR3
5 unique J



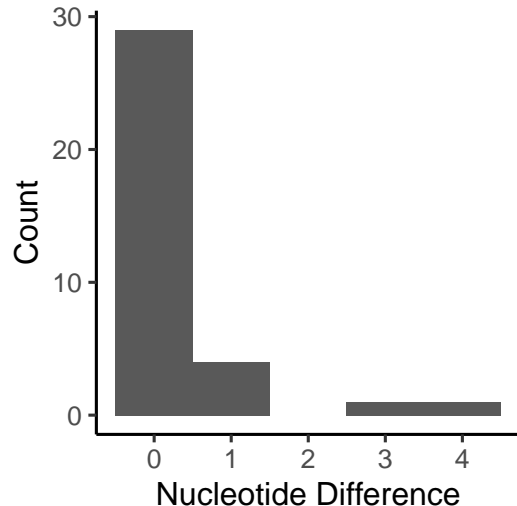
IGHV4-39*07

636 sequences assigned
578 (90.9%) exact matches, in which:
577 unique CDR3
7 unique J



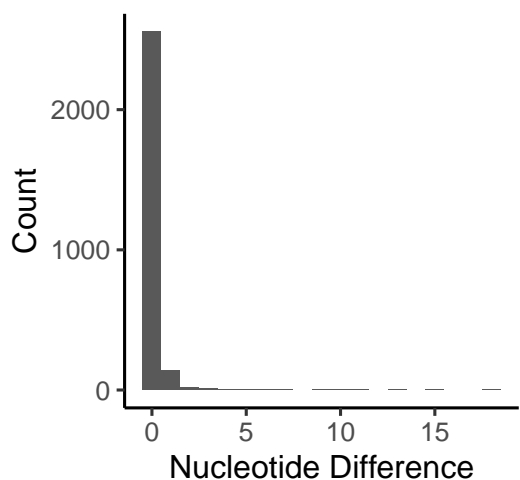
IGHV4-61*01

35 sequences assigned
29 (82.9%) exact matches, in which:
29 unique CDR3
5 unique J



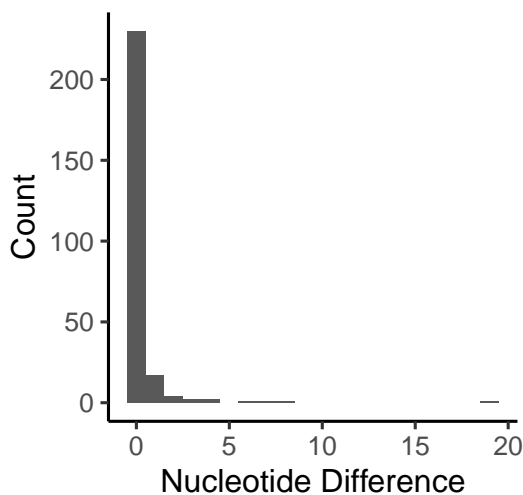
IGHV4-34*01

2751 sequences assigned
2556 (92.9%) exact matches, in which:
2554 unique CDR3
7 unique J



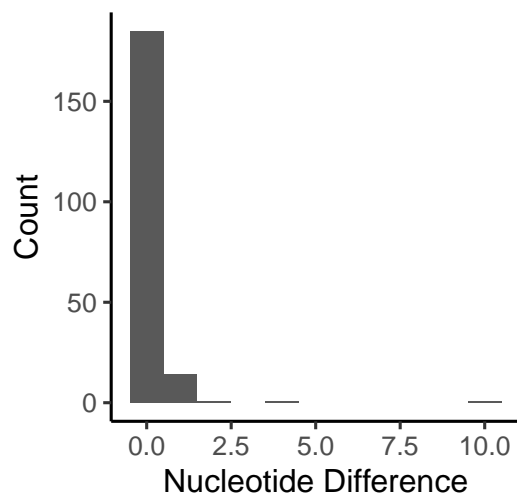
IGHV4-59*01

260 sequences assigned
230 (88.5%) exact matches, in which:
230 unique CDR3
7 unique J



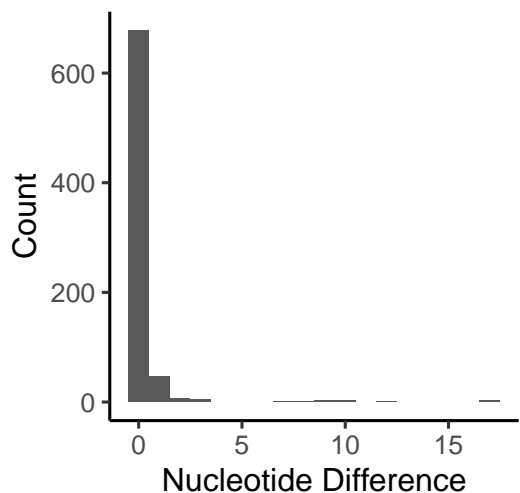
IGHV5-10-1*03

202 sequences assigned
185 (91.6%) exact matches, in which:
185 unique CDR3
7 unique J



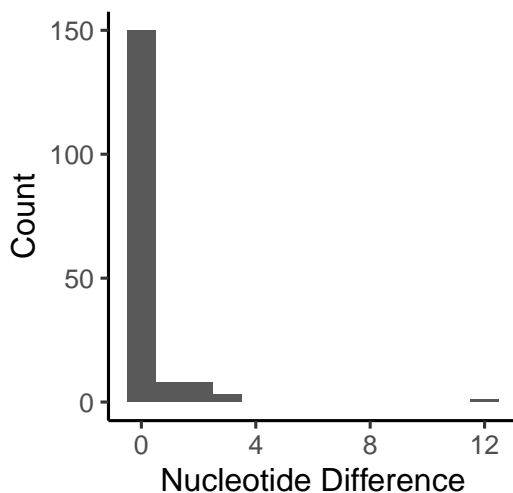
IGHV4-39*01

748 sequences assigned
678 (90.6%) exact matches, in which:
678 unique CDR3
6 unique J



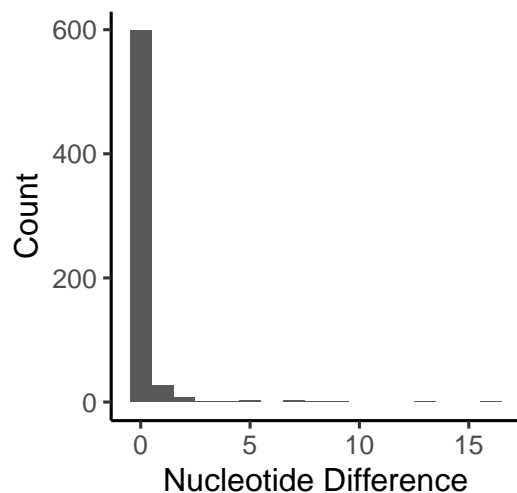
IGHV4-59*08

170 sequences assigned
150 (88.2%) exact matches, in which:
150 unique CDR3
6 unique J



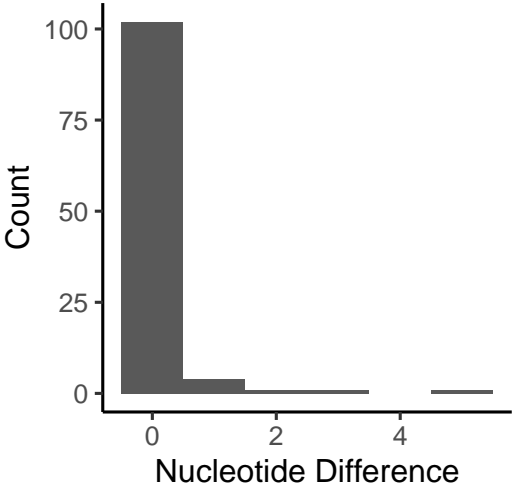
IGHV5-51*01

642 sequences assigned
599 (93.3%) exact matches, in which:
598 unique CDR3
7 unique J



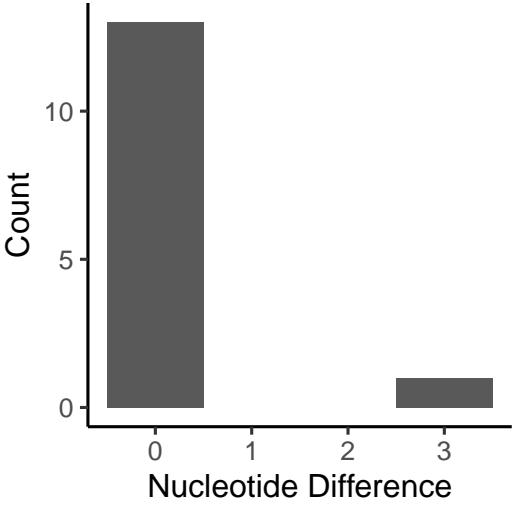
IGHV6-1*01

109 sequences assigned
102 (93.6%) exact matches, in which:
101 unique CDR3
7 unique J

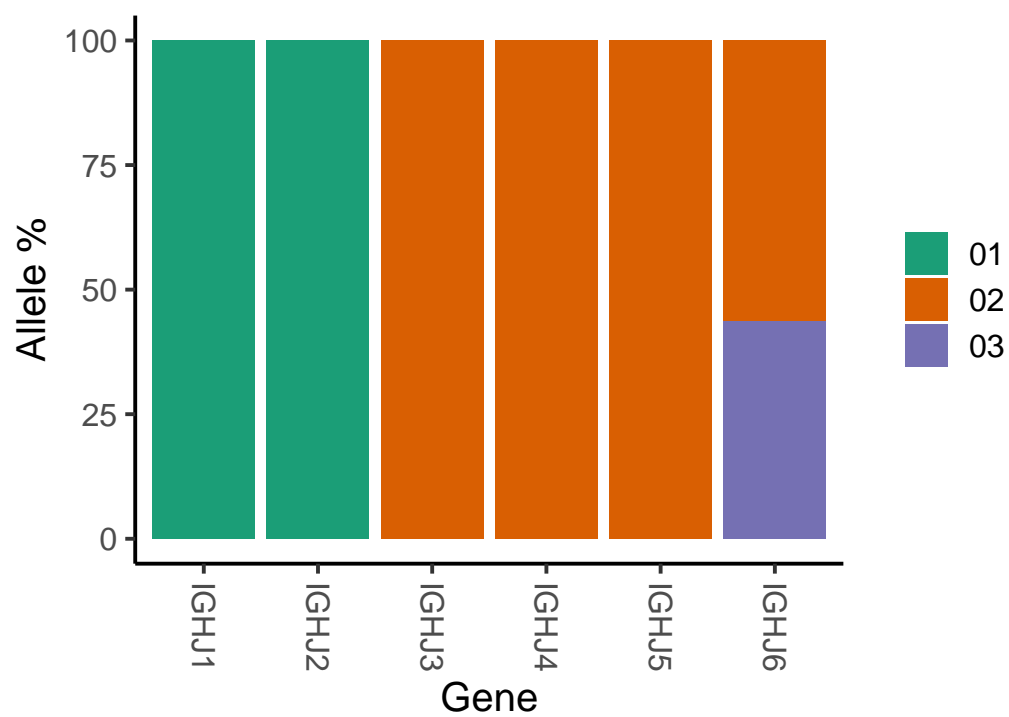


IGHV7-4-1*01

14 sequences assigned
13 (92.9%) exact matches, in which:
13 unique CDR3
4 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.