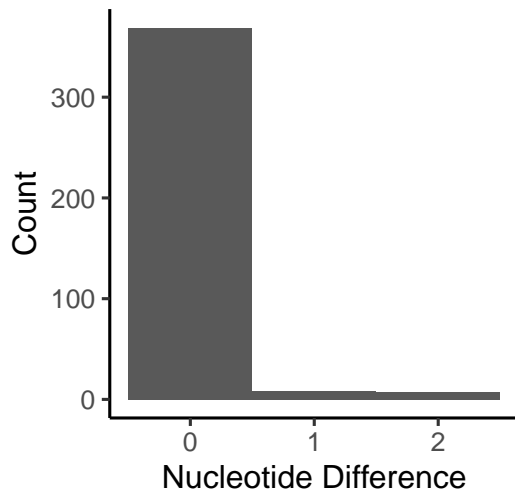


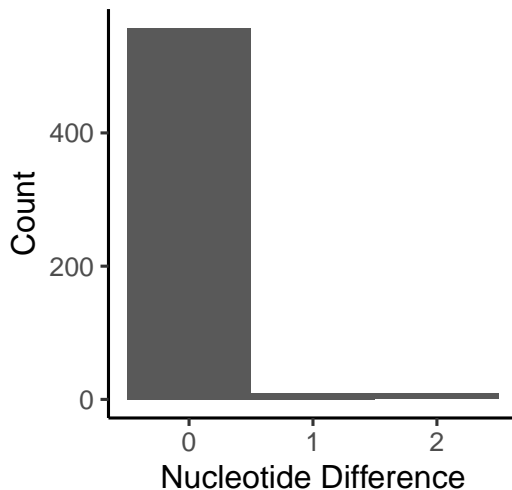
IGHV1-2*02

384 sequences assigned
369 (96.1%) exact matches, in which:
369 unique CDR3
6 unique J



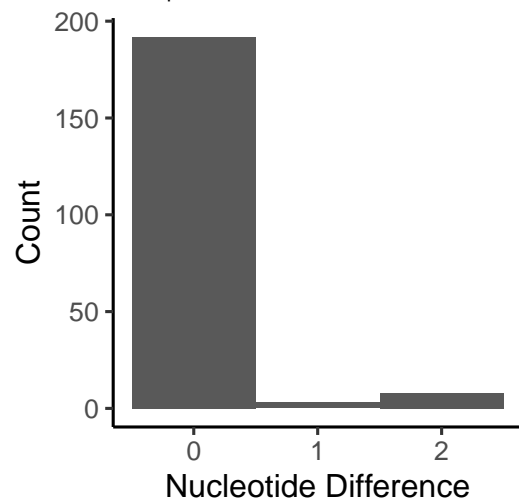
IGHV1-8*01

577 sequences assigned
558 (96.7%) exact matches, in which:
558 unique CDR3
7 unique J



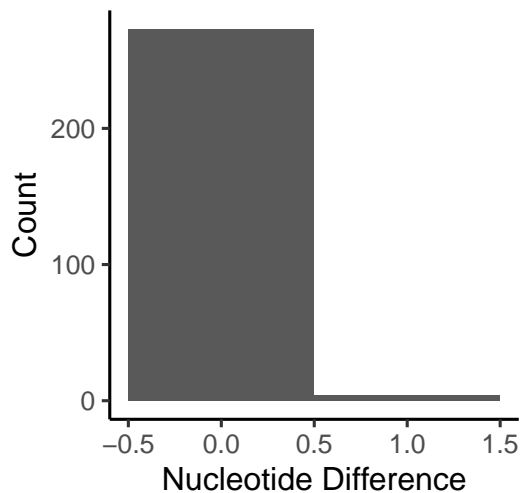
IGHV1-46*01

203 sequences assigned
192 (94.6%) exact matches, in which:
192 unique CDR3
6 unique J



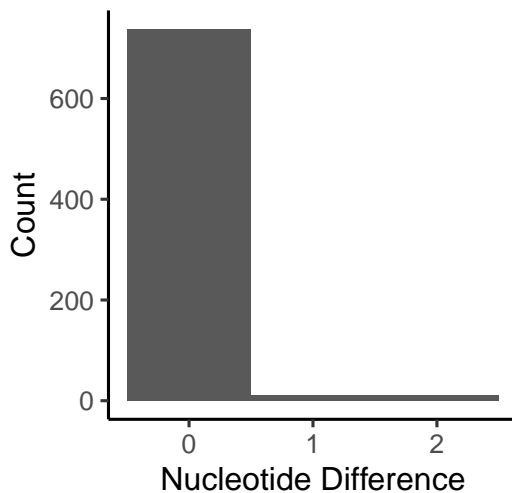
IGHV1-2*06

277 sequences assigned
273 (98.6%) exact matches, in which:
273 unique CDR3
7 unique J



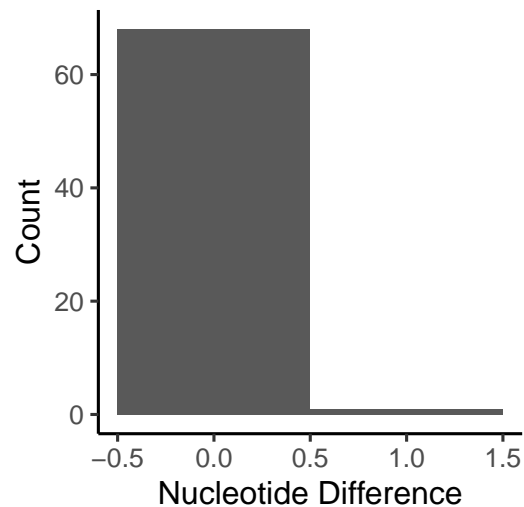
IGHV1-18*01

759 sequences assigned
738 (97.2%) exact matches, in which:
738 unique CDR3
7 unique J



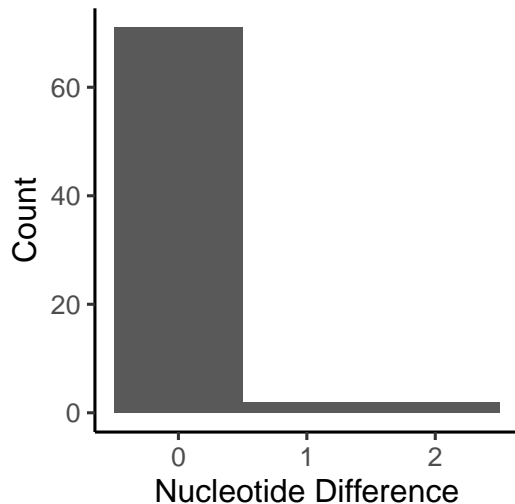
IGHV1-46*03

69 sequences assigned
68 (98.6%) exact matches, in which:
68 unique CDR3
6 unique J



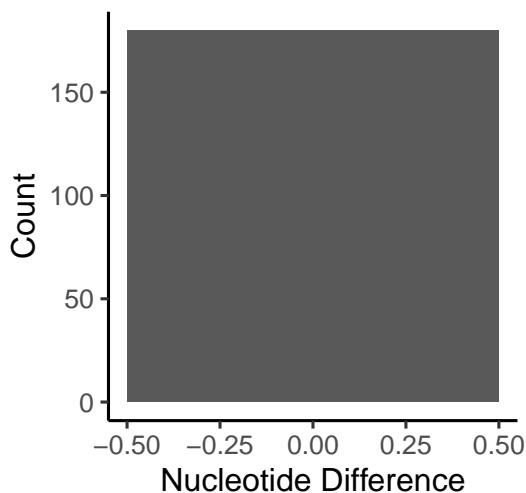
IGHV1-3*01_05

75 sequences assigned
71 (94.7%) exact matches, in which:
71 unique CDR3
5 unique J



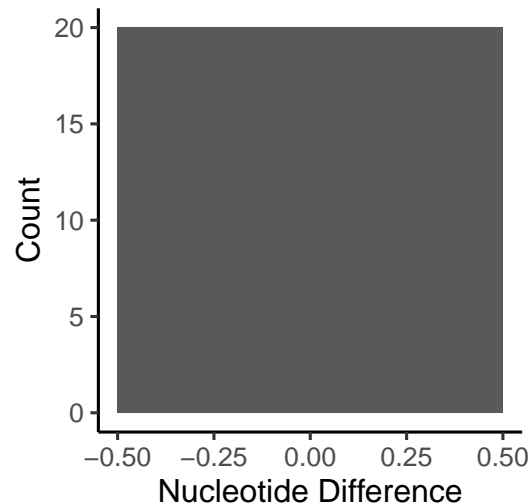
IGHV1-24*01

180 sequences assigned
180 (100%) exact matches, in which:
179 unique CDR3
7 unique J



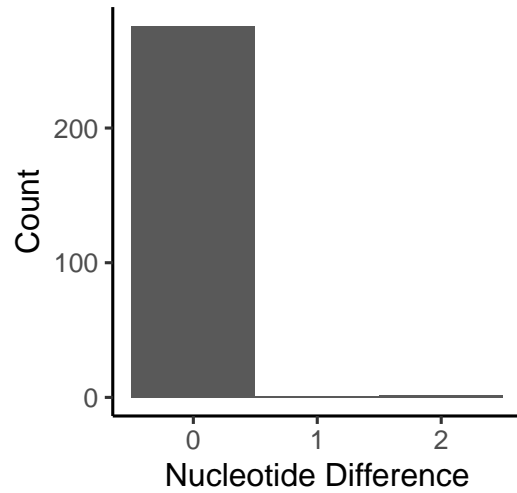
IGHV1-58*02

20 sequences assigned
20 (100%) exact matches, in which:
20 unique CDR3
5 unique J



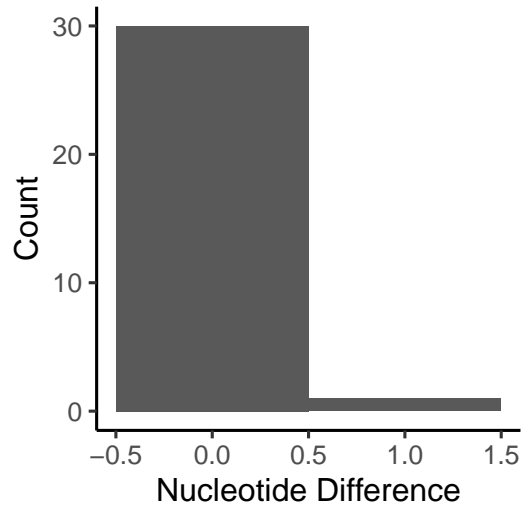
IGHV1–69*05

279 sequences assigned
276 (98.9%) exact matches, in which:
276 unique CDR3
6 unique J



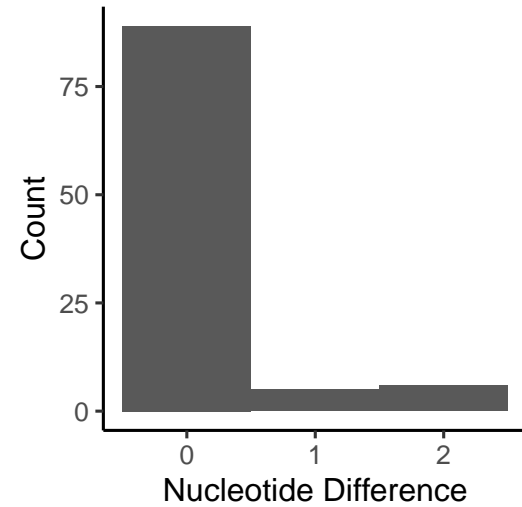
IGHV2–26*01

31 sequences assigned
30 (96.8%) exact matches, in which:
30 unique CDR3
5 unique J



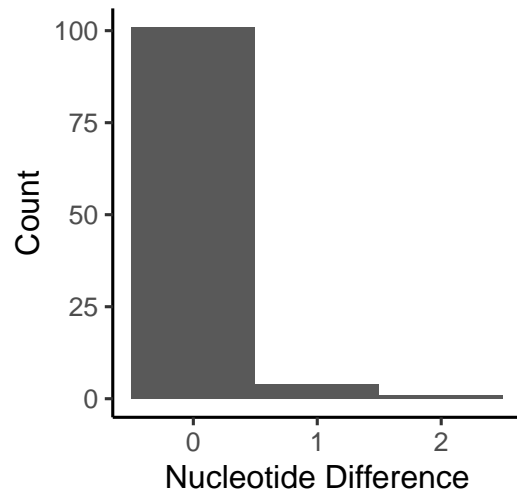
IGHV3–7*01

100 sequences assigned
89 (89%) exact matches, in which:
89 unique CDR3
5 unique J



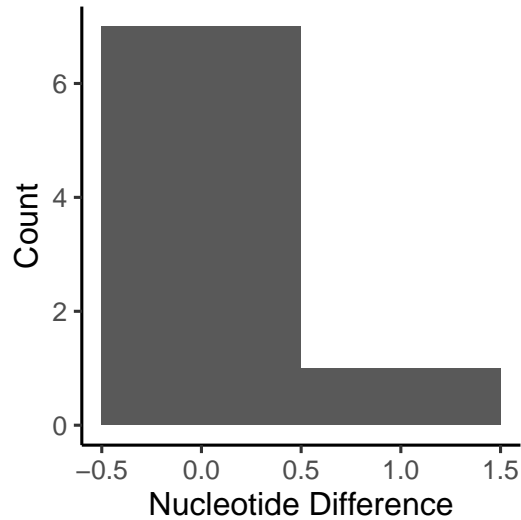
IGHV1–69*04_09

106 sequences assigned
101 (95.3%) exact matches, in which:
101 unique CDR3
6 unique J



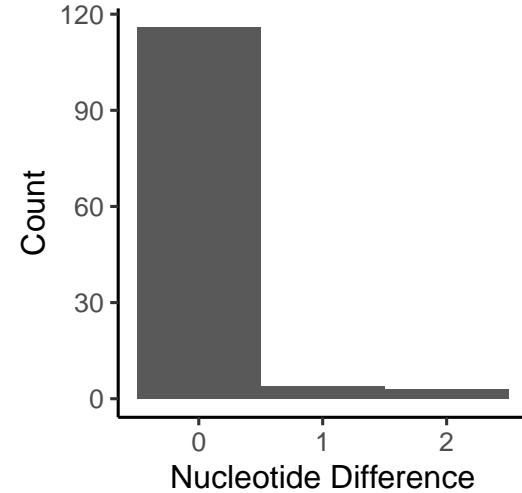
IGHV2–26*02

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
2 unique J



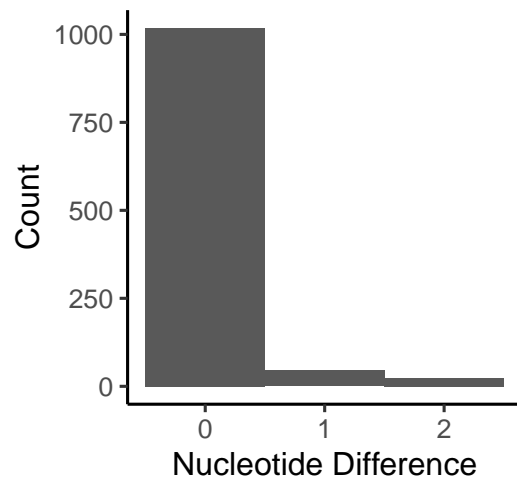
IGHV3–7*03

123 sequences assigned
116 (94.3%) exact matches, in which:
116 unique CDR3
6 unique J



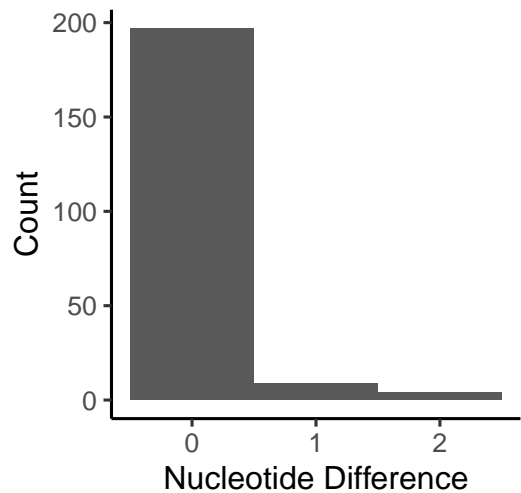
IGHV2–5*02

1087 sequences assigned
1018 (93.7%) exact matches, in which:
1016 unique CDR3
7 unique J



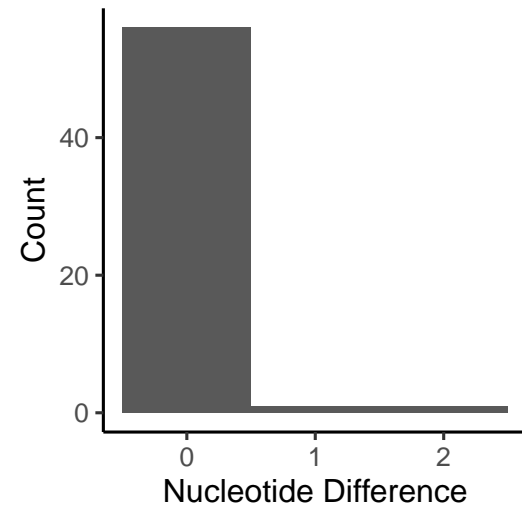
IGHV2–70*11_15

210 sequences assigned
197 (93.8%) exact matches, in which:
196 unique CDR3
7 unique J



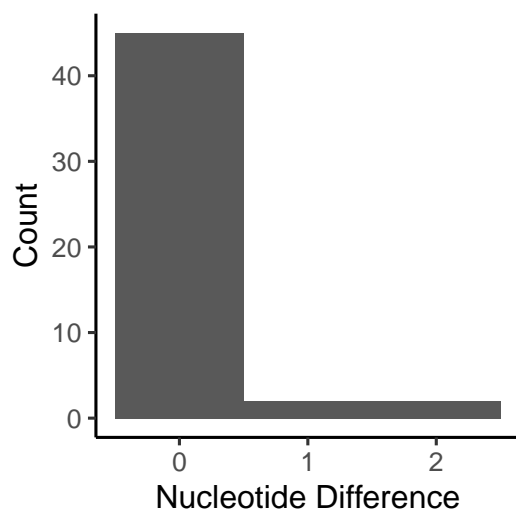
IGHV3–9*01

58 sequences assigned
56 (96.6%) exact matches, in which:
56 unique CDR3
6 unique J



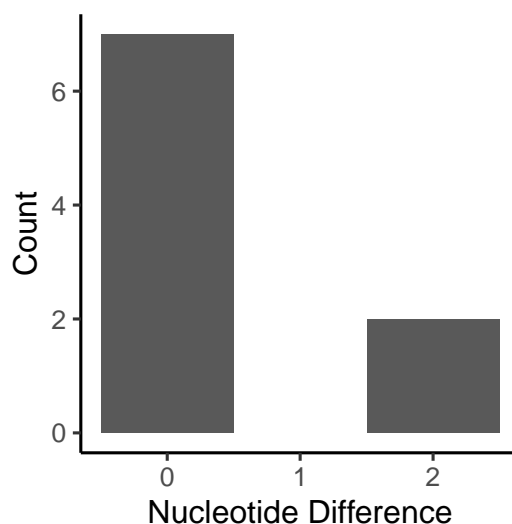
IGHV3-11*01

49 sequences assigned
45 (91.8%) exact matches, in which:
44 unique CDR3
5 unique J



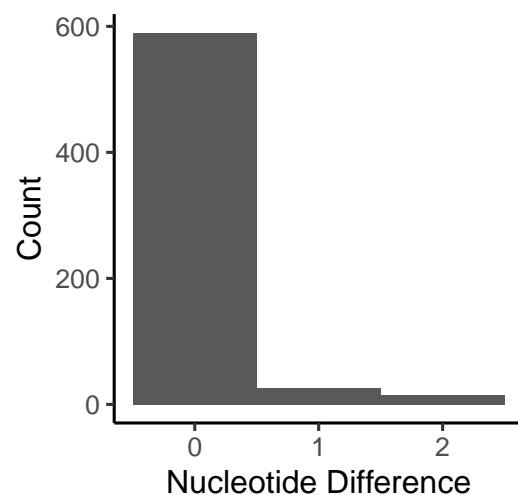
IGHV3-20*01_02

9 sequences assigned
7 (77.8%) exact matches, in which:
7 unique CDR3
4 unique J



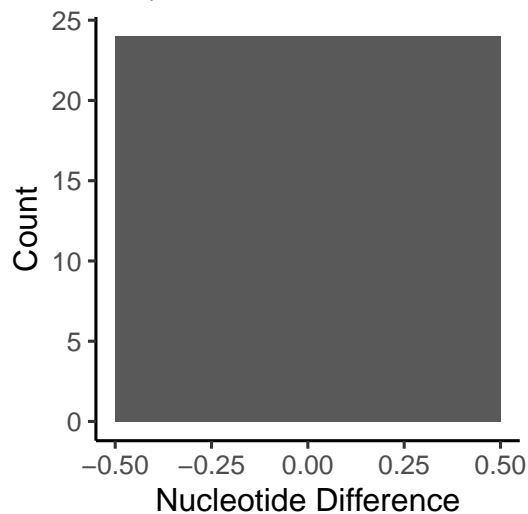
IGHV3-23*01_04

631 sequences assigned
590 (93.5%) exact matches, in which:
585 unique CDR3
7 unique J



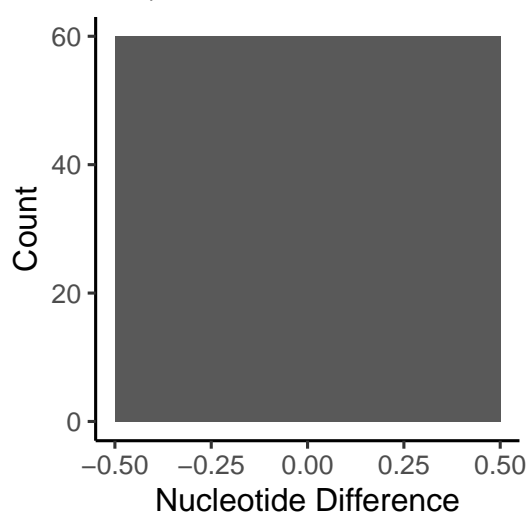
IGHV3-13*01

24 sequences assigned
24 (100%) exact matches, in which:
24 unique CDR3
6 unique J



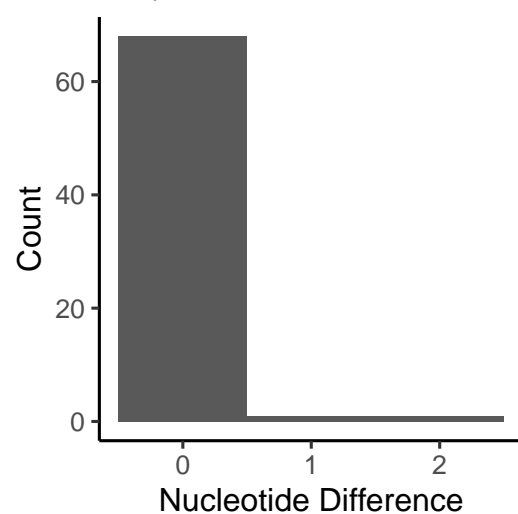
IGHV3-20*03_04

60 sequences assigned
60 (100%) exact matches, in which:
60 unique CDR3
5 unique J



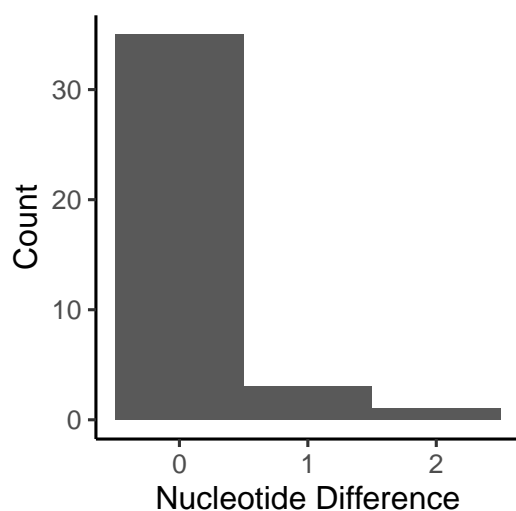
IGHV3-33*01

70 sequences assigned
68 (97.1%) exact matches, in which:
68 unique CDR3
6 unique J



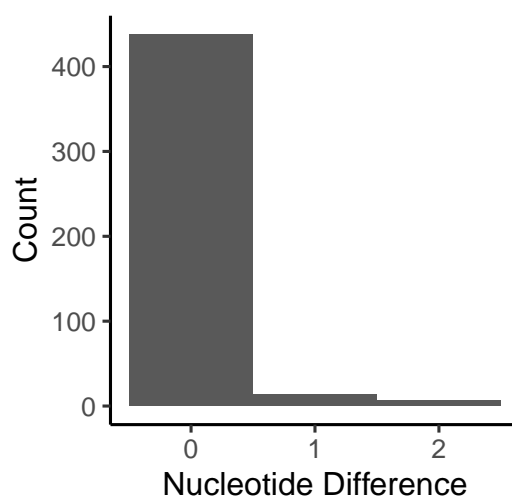
IGHV3-15*01_02

39 sequences assigned
35 (89.7%) exact matches, in which:
35 unique CDR3
6 unique J



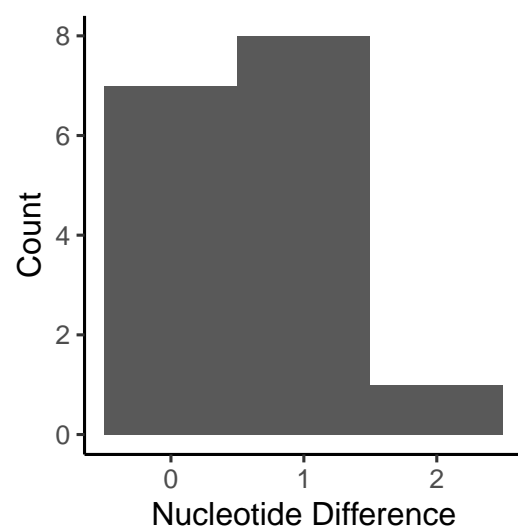
IGHV3-21*01_02

459 sequences assigned
438 (95.4%) exact matches, in which:
430 unique CDR3
7 unique J



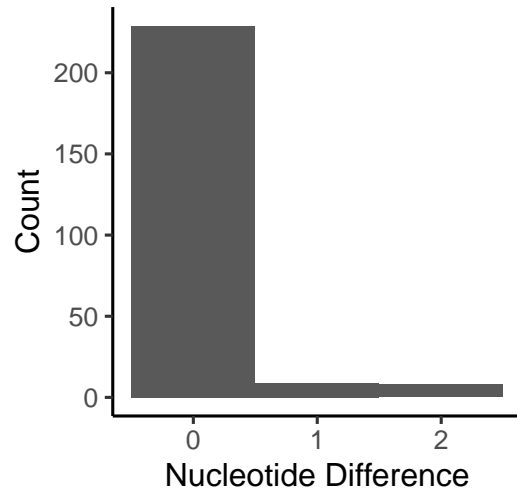
IGHV3-43*01

16 sequences assigned
7 (43.8%) exact matches, in which:
7 unique CDR3
3 unique J



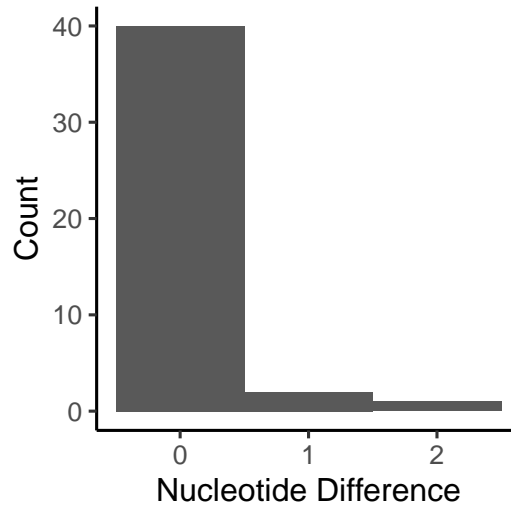
IGHV3-48*01

246 sequences assigned
229 (93.1%) exact matches, in which:
228 unique CDR3
7 unique J



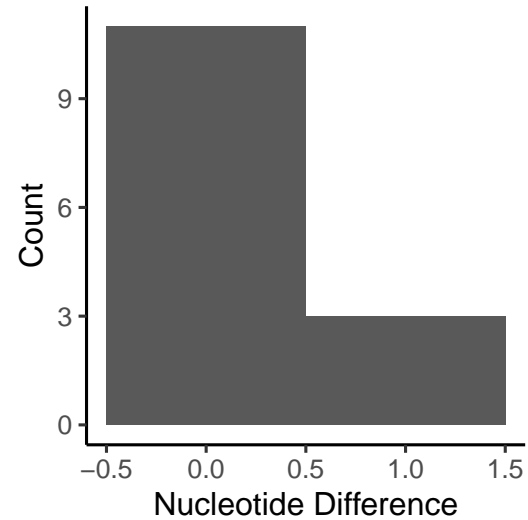
IGHV3-64*01

43 sequences assigned
40 (93%) exact matches, in which:
38 unique CDR3
7 unique J



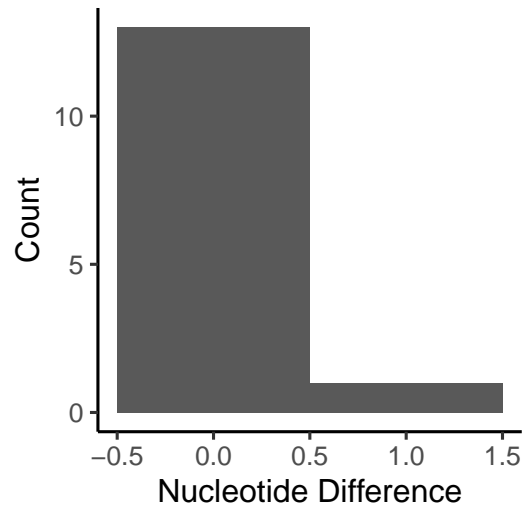
IGHV3-73*01_02

14 sequences assigned
11 (78.6%) exact matches, in which:
11 unique CDR3
4 unique J



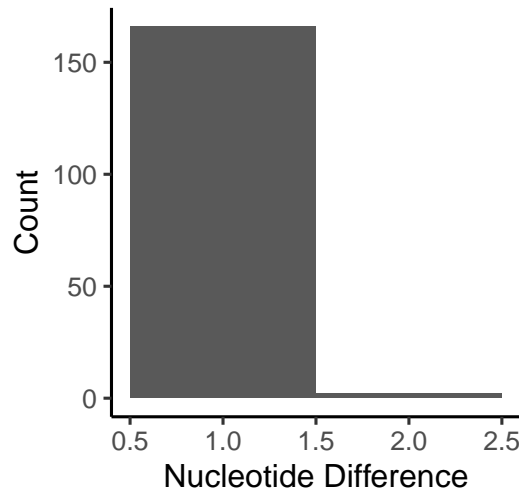
IGHV3-49*03_05

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



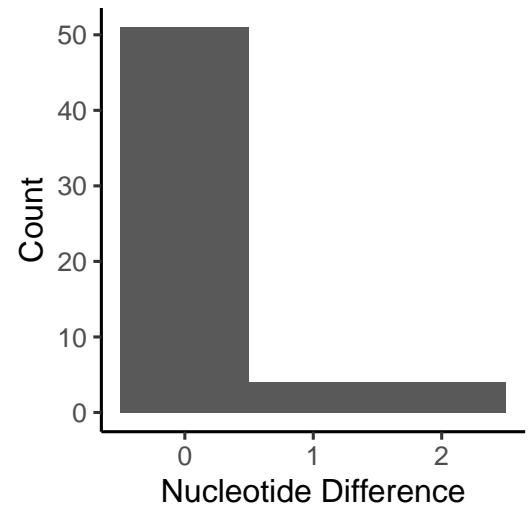
IGHV3-66*01

168 sequences assigned
No exact matches.



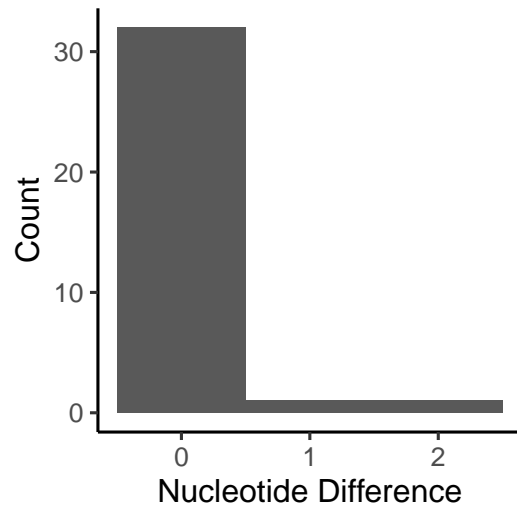
IGHV3-74*01_02

59 sequences assigned
51 (86.4%) exact matches, in which:
51 unique CDR3
6 unique J



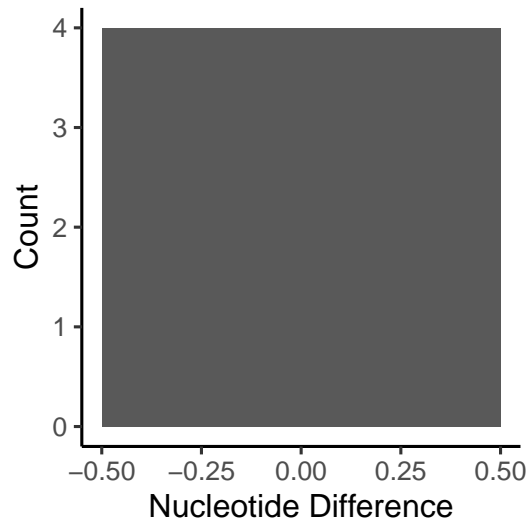
IGHV3-53*04

34 sequences assigned
32 (94.1%) exact matches, in which:
30 unique CDR3
5 unique J



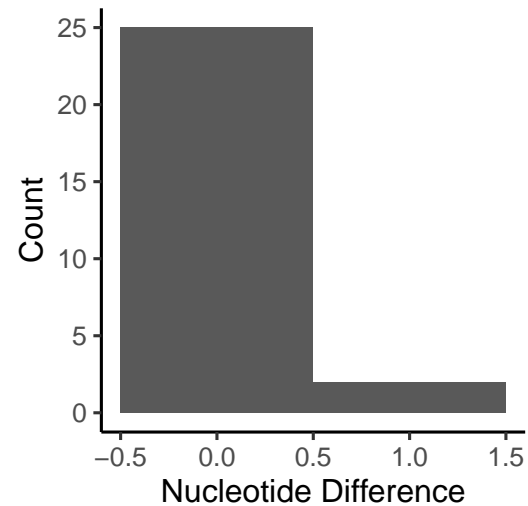
IGHV3-72*01

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



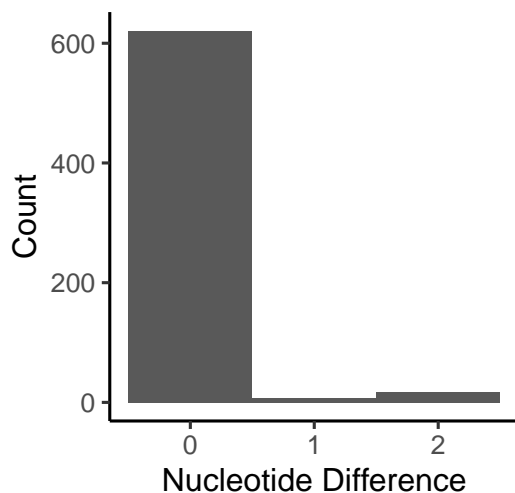
IGHV3-43D*04

27 sequences assigned
25 (92.6%) exact matches, in which:
25 unique CDR3
5 unique J



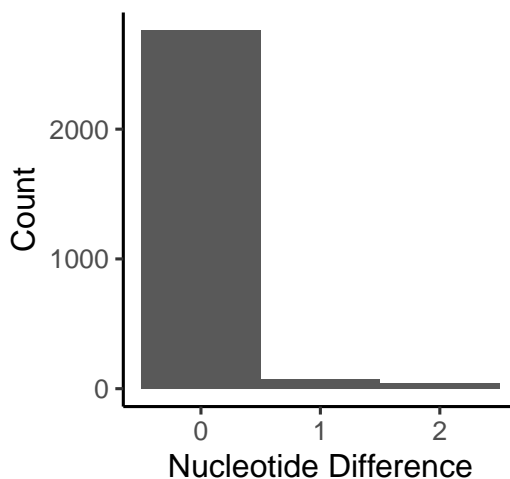
IGHV4-4*07

646 sequences assigned
621 (96.1%) exact matches, in which:
619 unique CDR3
7 unique J



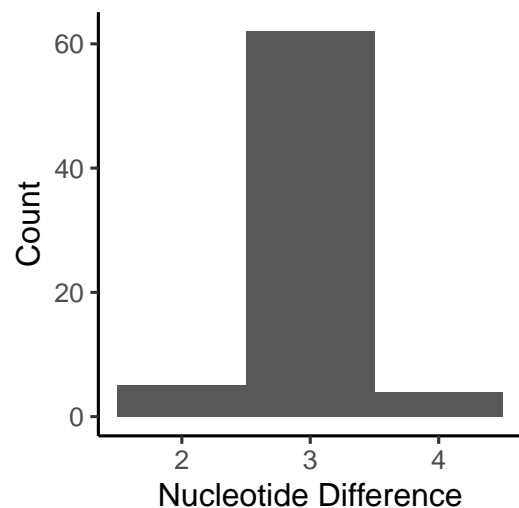
IGHV4-34*01_02

2870 sequences assigned
2761 (96.2%) exact matches, in which:
2740 unique CDR3
7 unique J



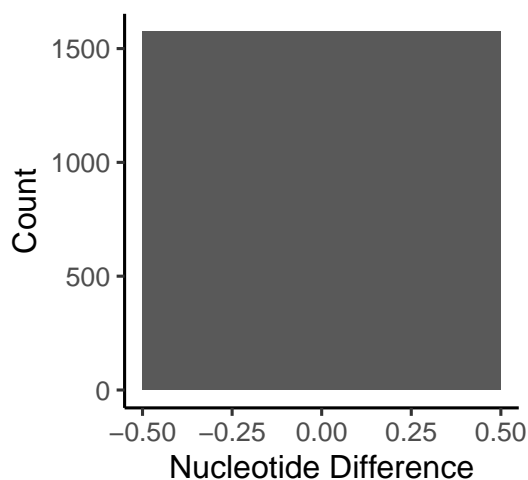
IGHV4/OR15-8*01

71 sequences assigned
No exact matches.



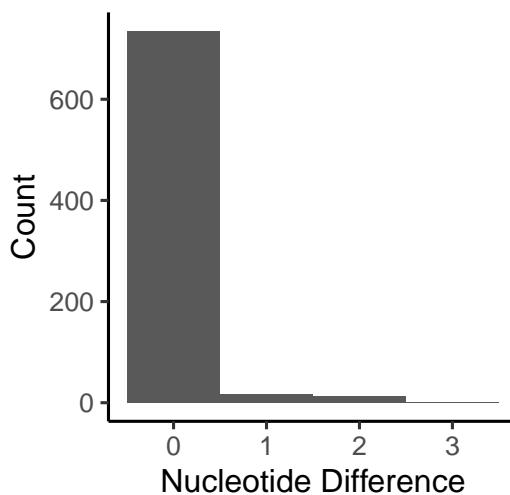
IGHV4-4*09

1574 sequences assigned
1574 (100%) exact matches, in which:
1554 unique CDR3
7 unique J



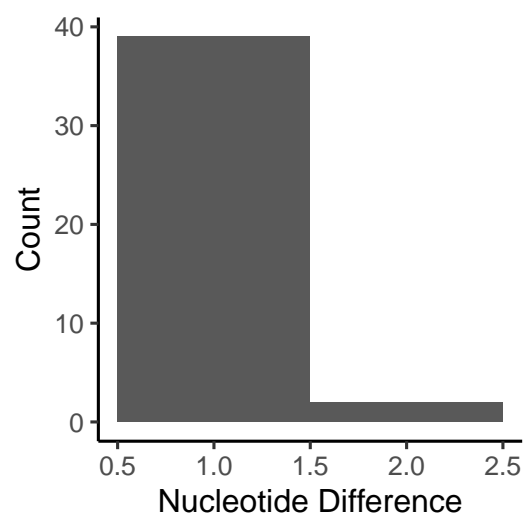
IGHV4-39*07

765 sequences assigned
735 (96.1%) exact matches, in which:
731 unique CDR3
6 unique J



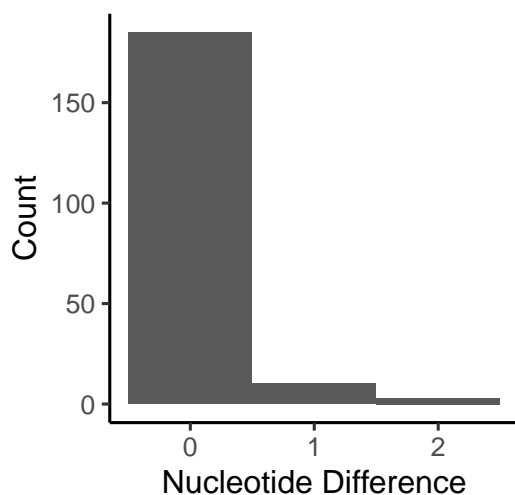
IGHV5-51*07

41 sequences assigned
No exact matches.



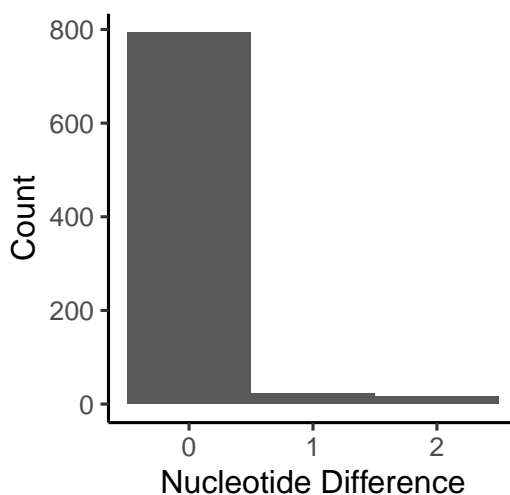
IGHV4-31*02

198 sequences assigned
185 (93.4%) exact matches, in which:
184 unique CDR3
6 unique J



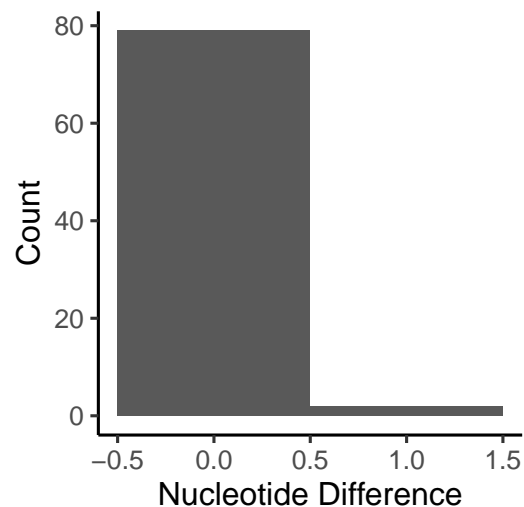
IGHV4-59*08

833 sequences assigned
794 (95.3%) exact matches, in which:
789 unique CDR3
7 unique J



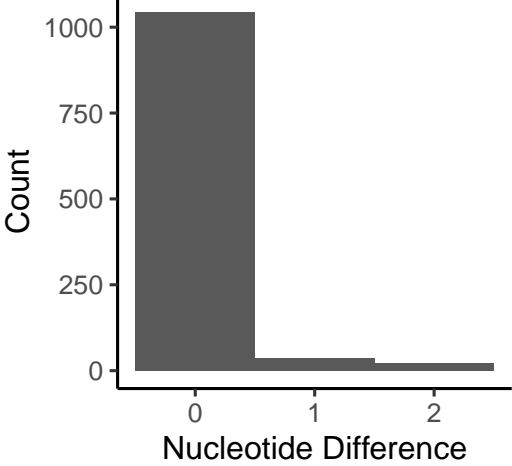
IGHV5-51*01_03

81 sequences assigned
79 (97.5%) exact matches, in which:
79 unique CDR3
7 unique J



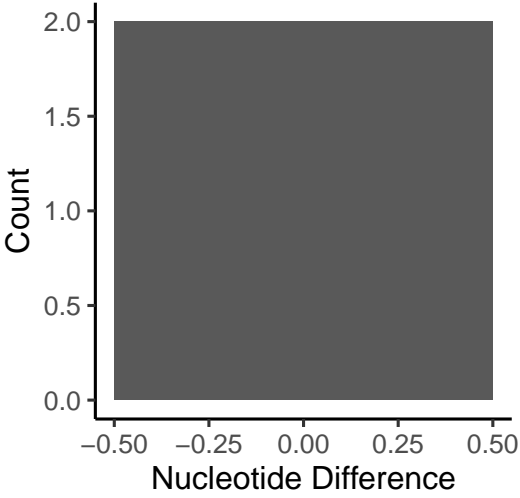
IGHV6-1*01_02

1099 sequences assigned
1043 (94.9%) exact matches, in which:
1036 unique CDR3
7 unique J

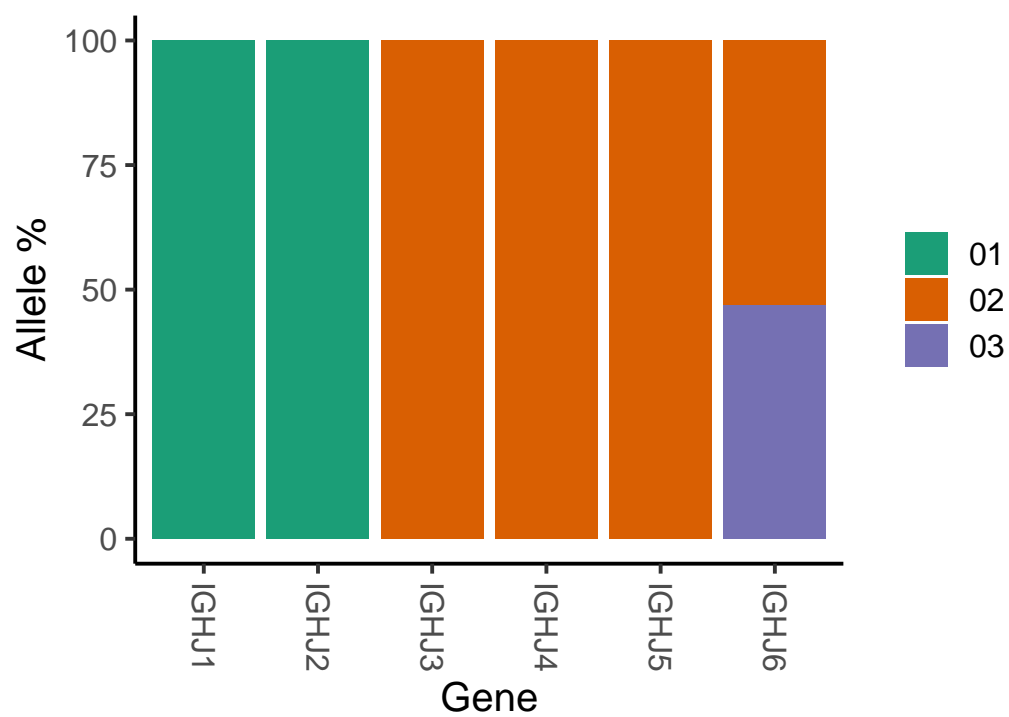


IGHV7-4-1*01

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



Allele Usage



Sequence Count by IGHJ6 allele usage

