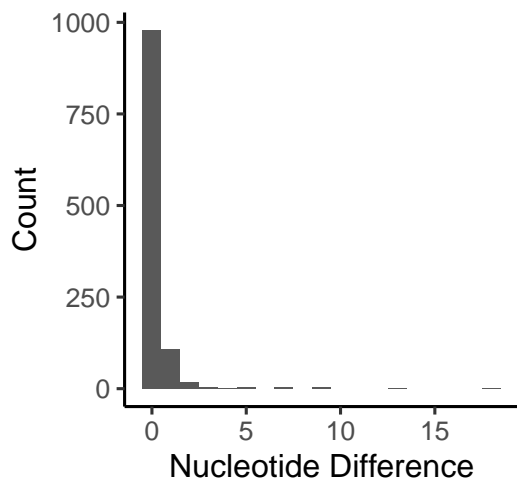


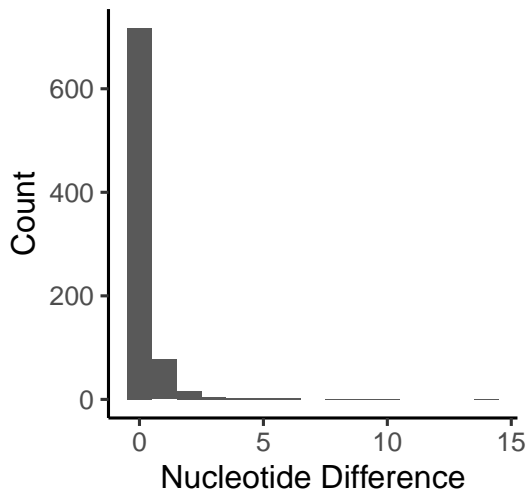
IGHV1-2*04

1127 sequences assigned
978 (86.8%) exact matches, in which:
871 unique CDR3
6 unique J



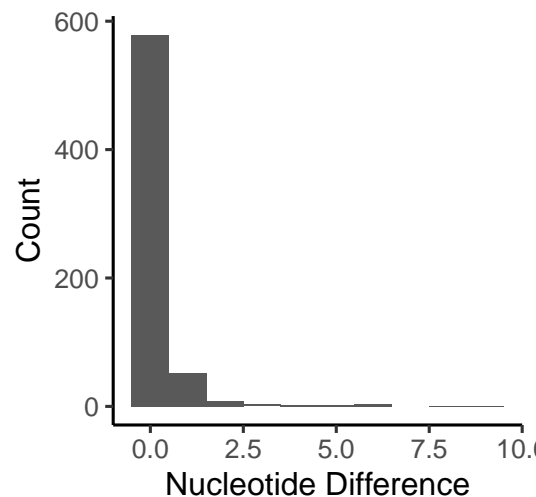
IGHV1-18*04

827 sequences assigned
718 (86.8%) exact matches, in which:
664 unique CDR3
6 unique J



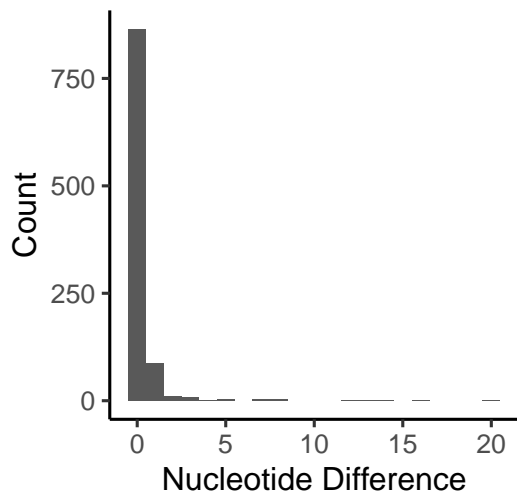
IGHV1-46*01

652 sequences assigned
579 (88.8%) exact matches, in which:
505 unique CDR3
6 unique J



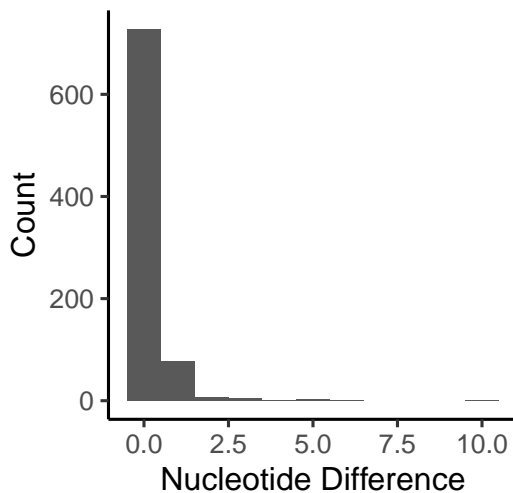
IGHV1-3*01

988 sequences assigned
865 (87.6%) exact matches, in which:
795 unique CDR3
6 unique J



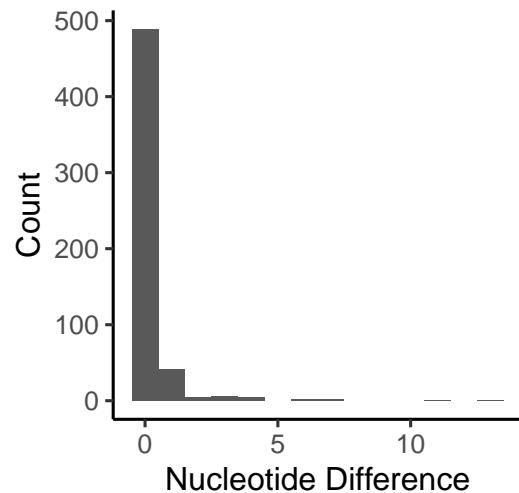
IGHV1-24*01

822 sequences assigned
728 (88.6%) exact matches, in which:
650 unique CDR3
6 unique J



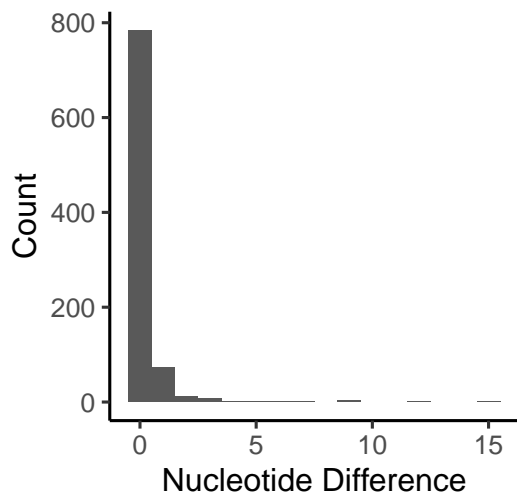
IGHV1-46*03

554 sequences assigned
489 (88.3%) exact matches, in which:
429 unique CDR3
6 unique J



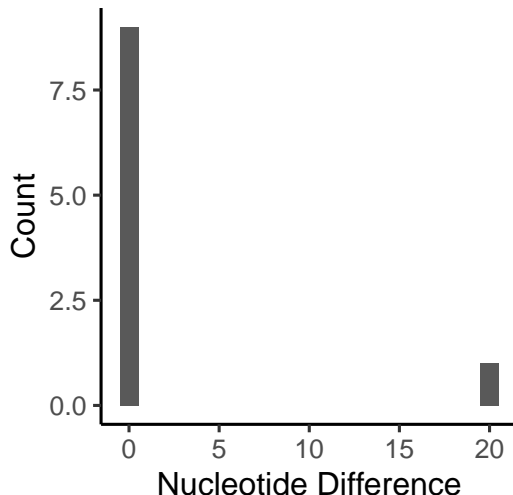
IGHV1-18*01

889 sequences assigned
784 (88.2%) exact matches, in which:
735 unique CDR3
6 unique J



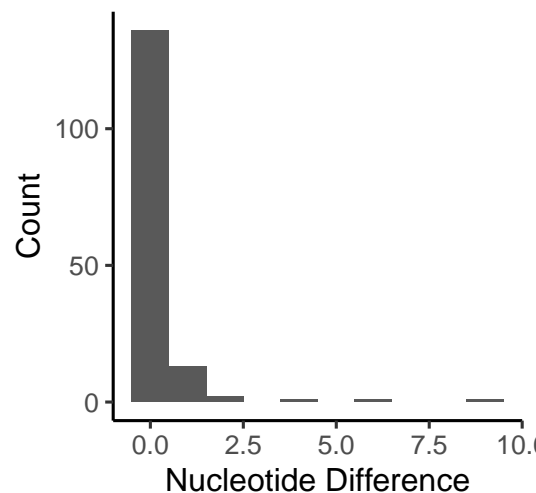
IGHV1-45*02

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



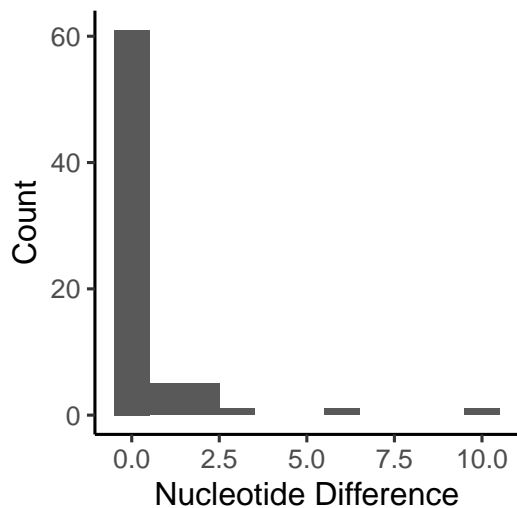
IGHV1-58*01

154 sequences assigned
136 (88.3%) exact matches, in which:
127 unique CDR3
5 unique J



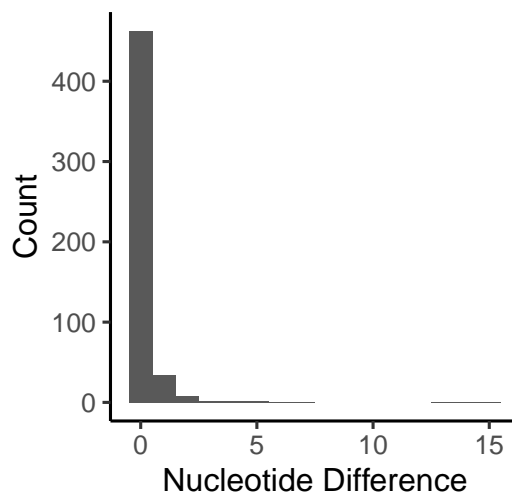
IGHV1-58*02

74 sequences assigned
61 (82.4%) exact matches, in which:
56 unique CDR3
5 unique J



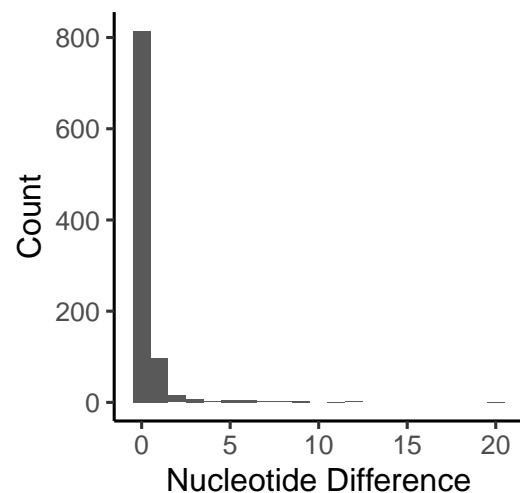
IGHV2-26*01

516 sequences assigned
463 (89.7%) exact matches, in which:
436 unique CDR3
6 unique J



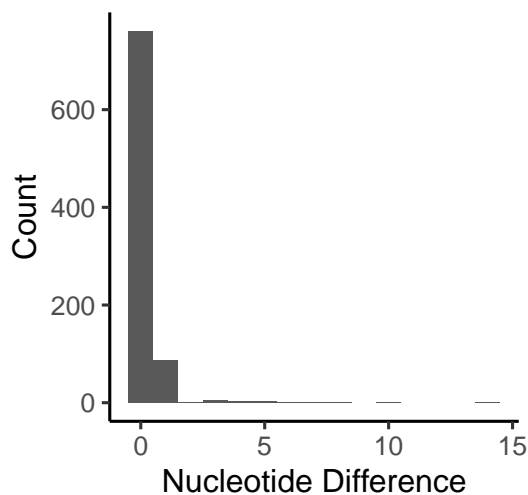
IGHV3-7*03

961 sequences assigned
815 (84.8%) exact matches, in which:
748 unique CDR3
6 unique J



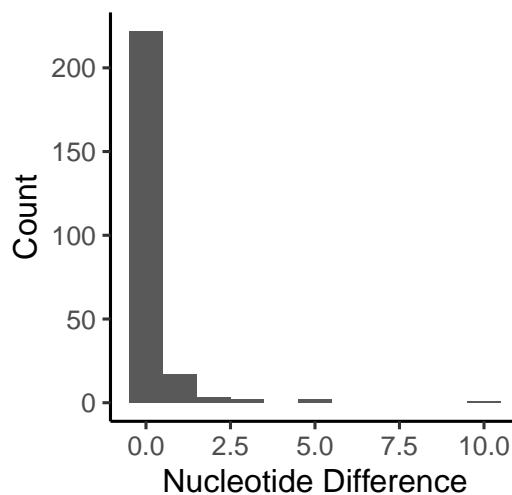
IGHV1-69*08_C191T

869 sequences assigned
761 (87.6%) exact matches, in which:
683 unique CDR3
6 unique J



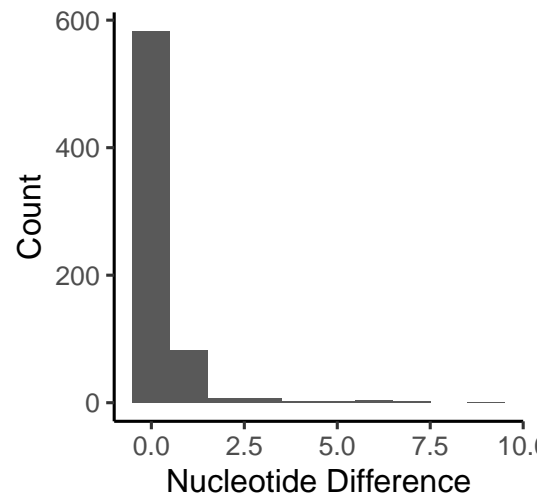
IGHV2-70*01

247 sequences assigned
222 (89.9%) exact matches, in which:
211 unique CDR3
5 unique J



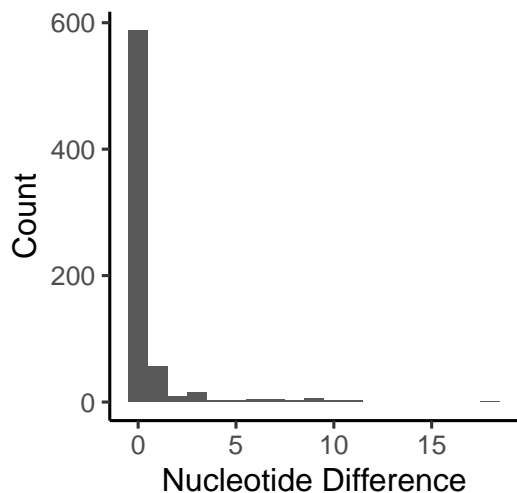
IGHV3-11*06

696 sequences assigned
583 (83.8%) exact matches, in which:
533 unique CDR3
6 unique J



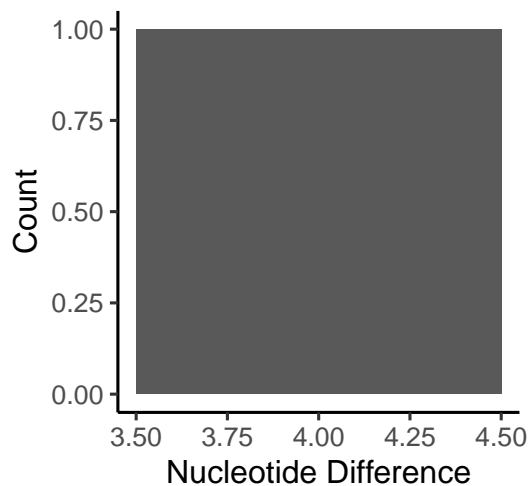
IGHV2-5*02

695 sequences assigned
588 (84.6%) exact matches, in which:
541 unique CDR3
6 unique J



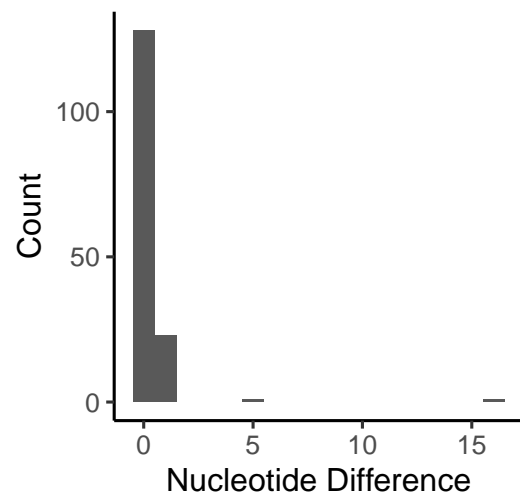
IGHV2-70D*04

1 sequences assigned
No exact matches.



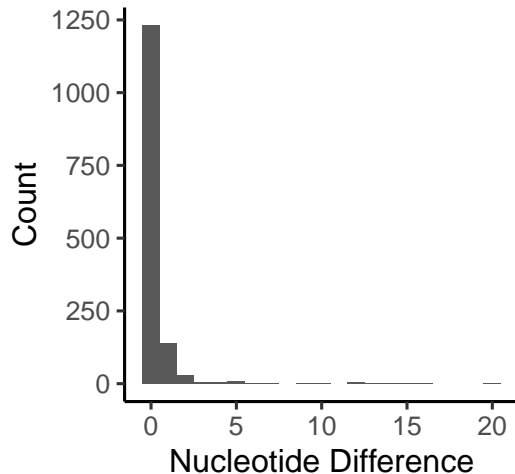
IGHV3-13*05

153 sequences assigned
128 (83.7%) exact matches, in which:
115 unique CDR3
5 unique J



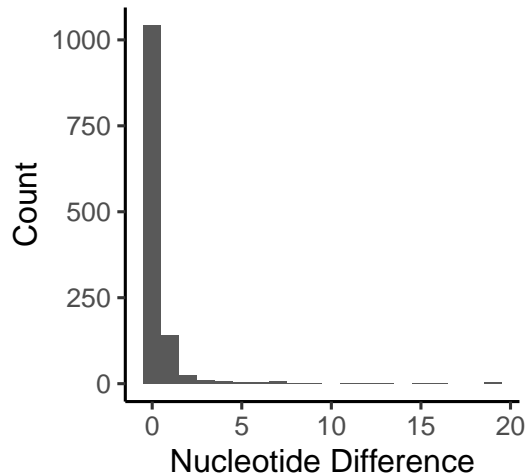
IGHV3-15*01

1436 sequences assigned
1231 (85.7%) exact matches, in which:
1133 unique CDR3
6 unique J



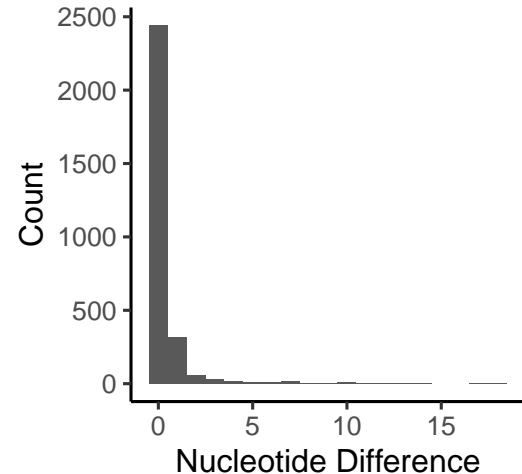
IGHV3-21*01

1250 sequences assigned
1042 (83.4%) exact matches, in which:
941 unique CDR3
6 unique J



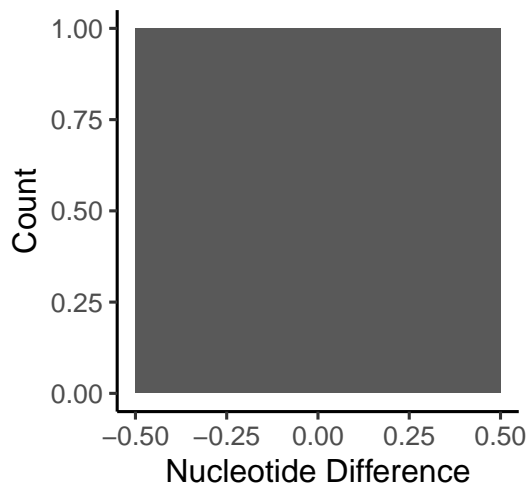
IGHV3-30*01

2922 sequences assigned
2441 (83.5%) exact matches, in which:
2259 unique CDR3
6 unique J



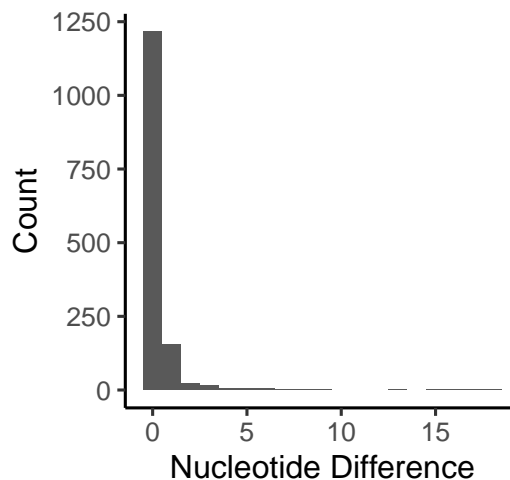
IGHV3-19*01

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



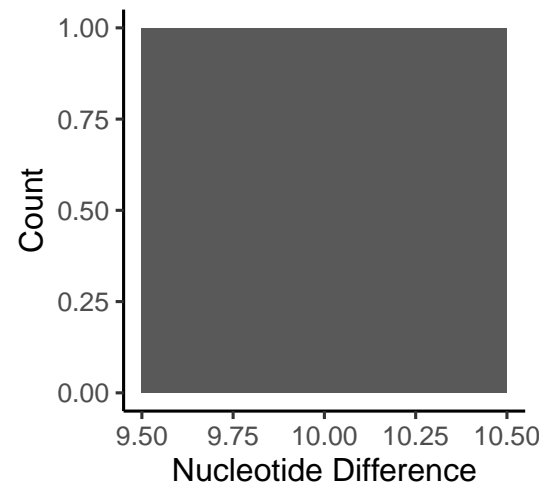
IGHV3-21*01_A184G_T

1435 sequences assigned
1216 (84.7%) exact matches, in which:
1081 unique CDR3
6 unique J



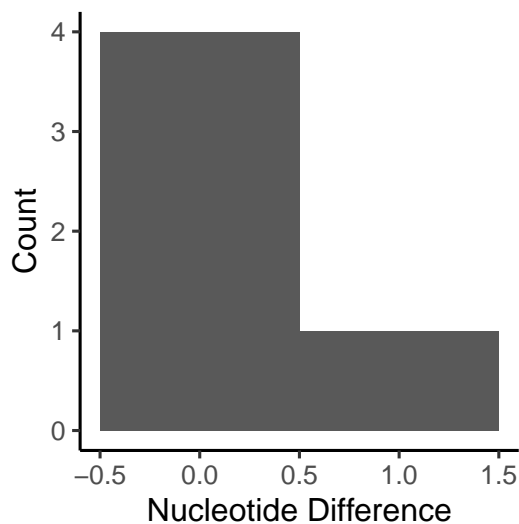
IGHV3-30-3*01

1 sequences assigned
No exact matches.



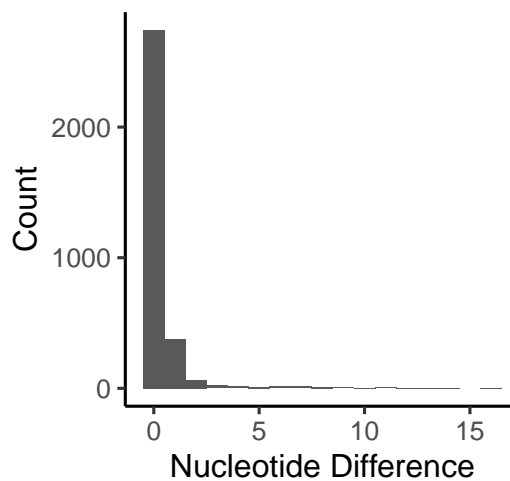
IGHV3-20*02

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



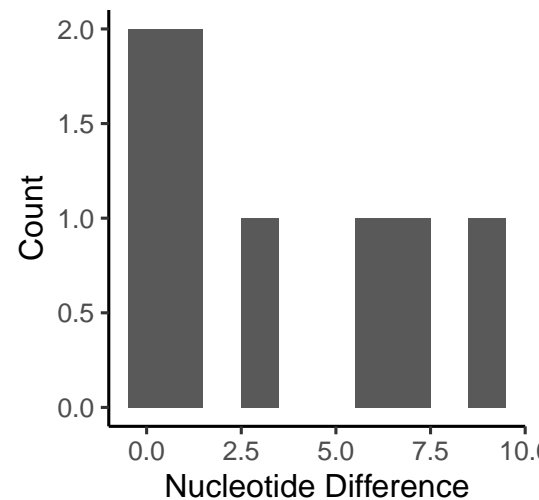
IGHV3-23*04

3299 sequences assigned
2743 (83.1%) exact matches, in which:
2495 unique CDR3
6 unique J



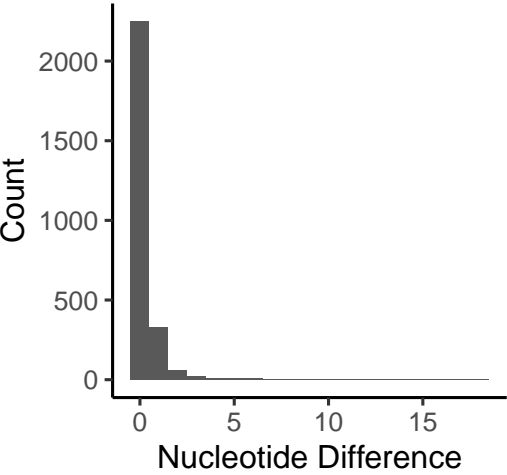
IGHV3-30-3*03

8 sequences assigned
2 (25%) exact matches, in which:
2 unique CDR3
2 unique J



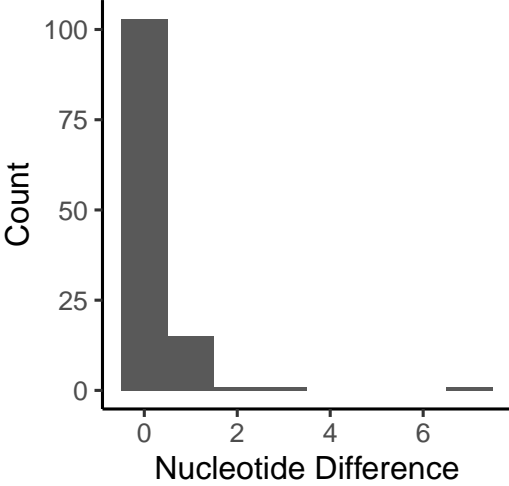
IGHV3-33*01

2718 sequences assigned
2249 (82.7%) exact matches, in which:
2024 unique CDR3
6 unique J



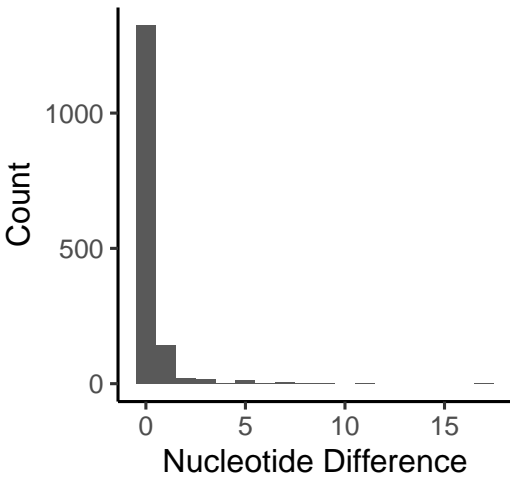
IGHV3-43*01

121 sequences assigned
103 (85.1%) exact matches, in which:
96 unique CDR3
6 unique J



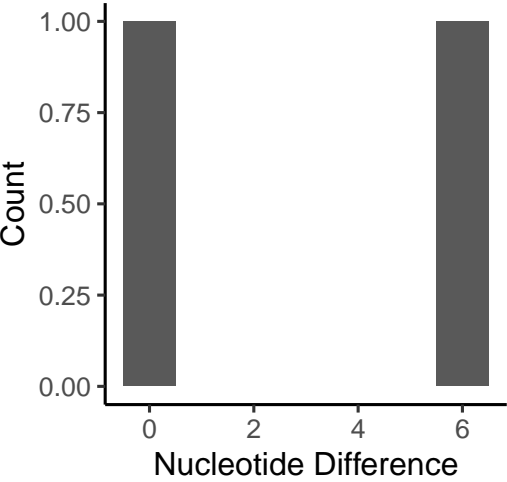
IGHV3-48*03

1530 sequences assigned
1324 (86.5%) exact matches, in which:
1215 unique CDR3
6 unique J



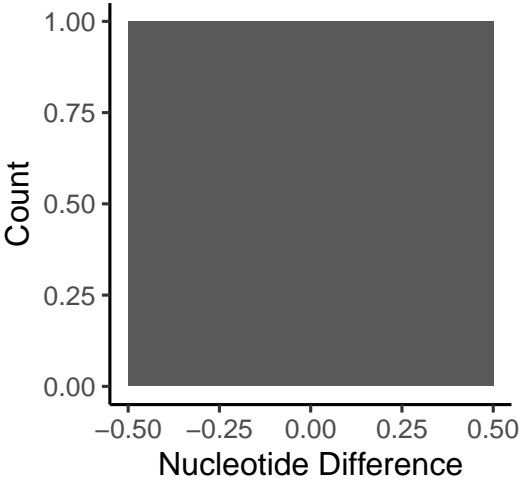
IGHV3-35*01

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



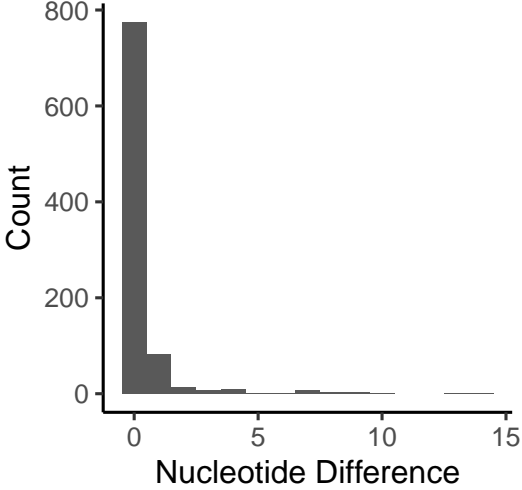
IGHV3-47*02

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



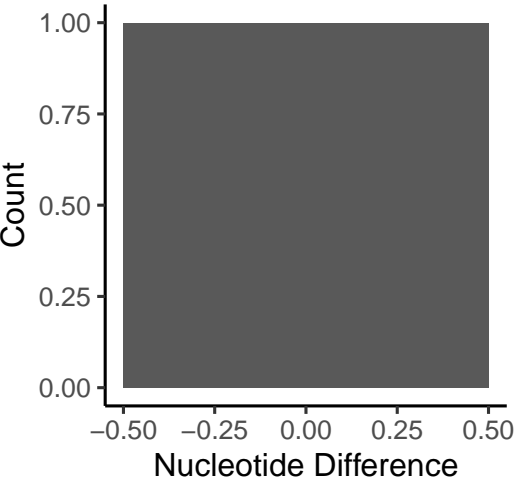
IGHV3-49*04

910 sequences assigned
775 (85.2%) exact matches, in which:
684 unique CDR3
6 unique J



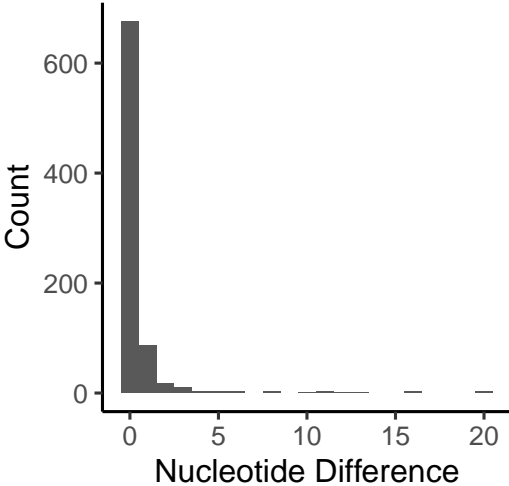
IGHV3-38-3*01

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



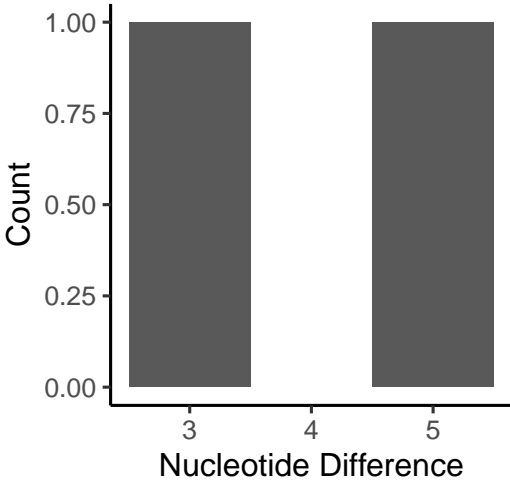
IGHV3-48*02

811 sequences assigned
676 (83.4%) exact matches, in which:
617 unique CDR3
6 unique J



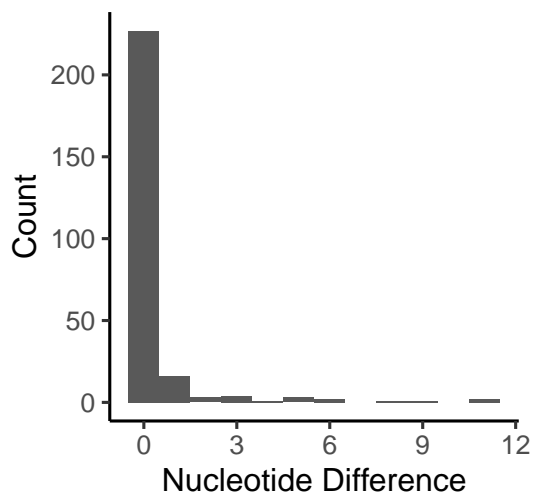
IGHV3-52*01

3 sequences assigned
No exact matches.



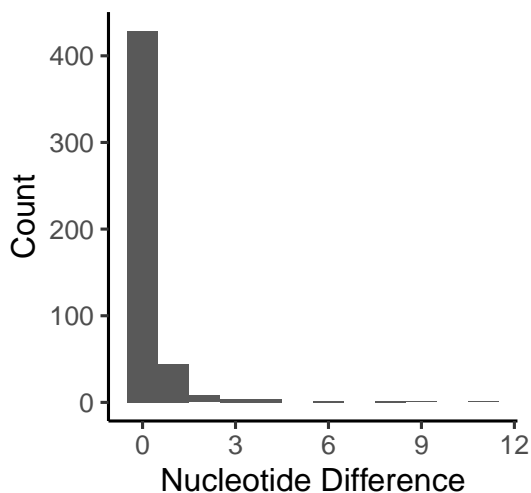
IGHV3–53*02

260 sequences assigned
227 (87.3%) exact matches, in which:
206 unique CDR3
5 unique J



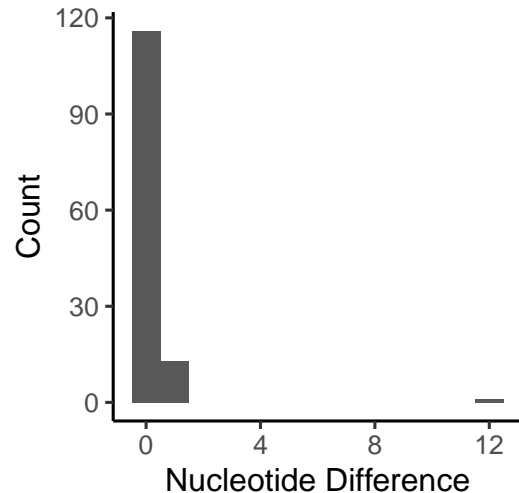
IGHV3–66*02

495 sequences assigned
429 (86.7%) exact matches, in which:
378 unique CDR3
6 unique J



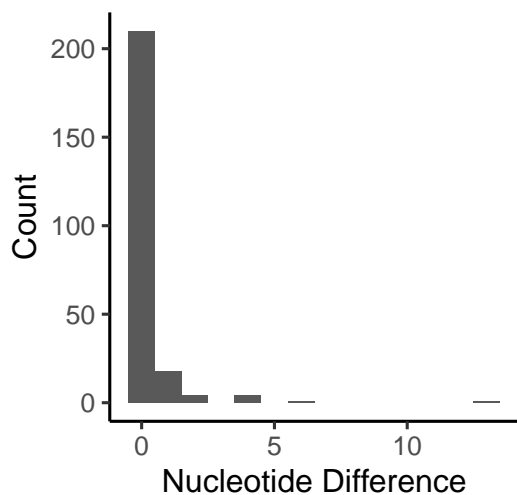
IGHV3–73*02

130 sequences assigned
116 (89.2%) exact matches, in which:
107 unique CDR3
5 unique J



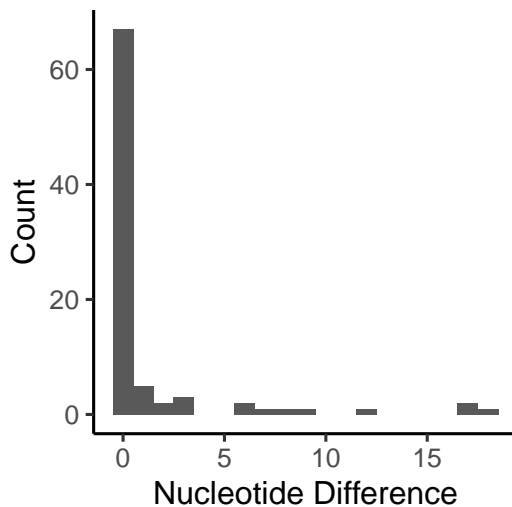
IGHV3–53*04

238 sequences assigned
210 (88.2%) exact matches, in which:
193 unique CDR3
6 unique J



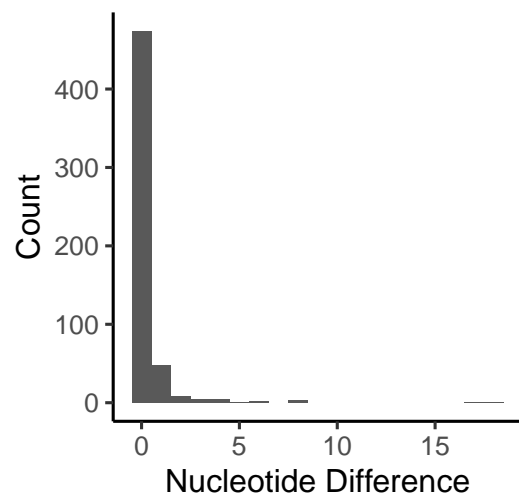
IGHV3–72*01

87 sequences assigned
67 (77%) exact matches, in which:
61 unique CDR3
5 unique J



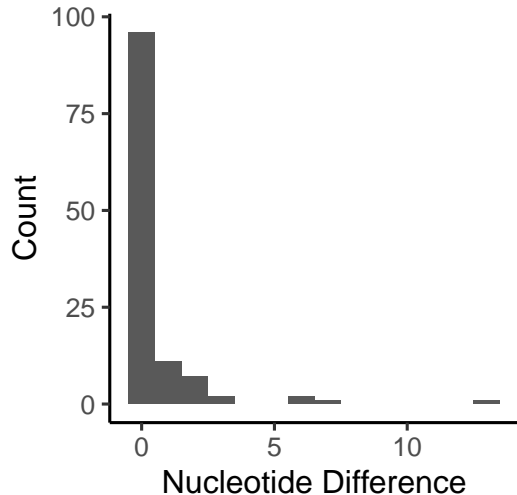
IGHV3–74*01

551 sequences assigned
474 (86%) exact matches, in which:
437 unique CDR3
6 unique J



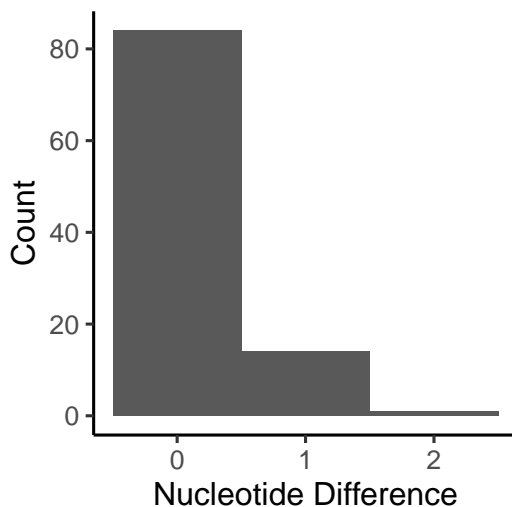
IGHV3–64*01

120 sequences assigned
96 (80%) exact matches, in which:
85 unique CDR3
6 unique J



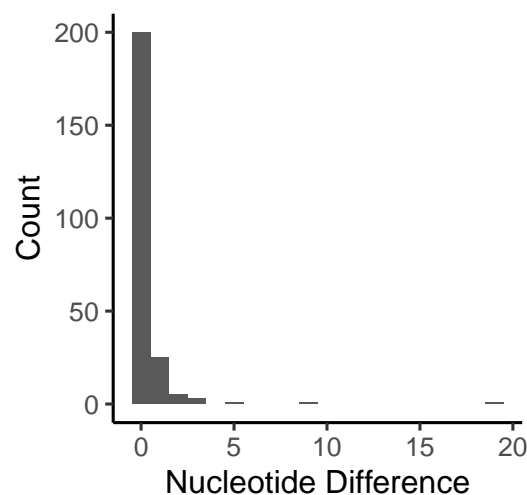
IGHV3–73*01

99 sequences assigned
84 (84.8%) exact matches, in which:
79 unique CDR3
5 unique J



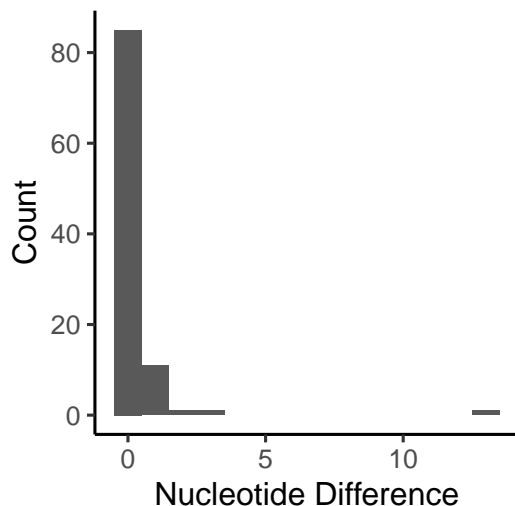
IGHV3–43D*03

240 sequences assigned
200 (83.3%) exact matches, in which:
182 unique CDR3
6 unique J



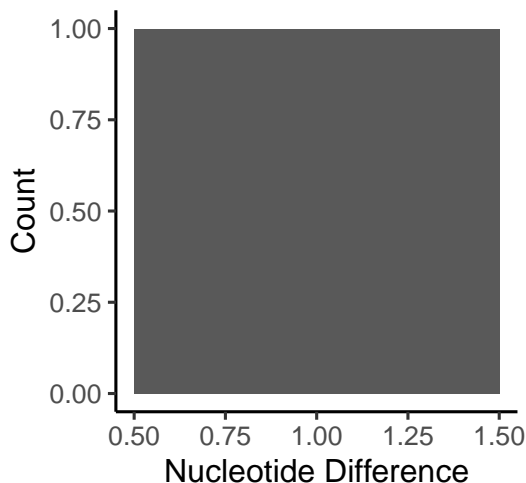
IGHV3-43D*04

99 sequences assigned
85 (85.9%) exact matches, in which:
77 unique CDR3
5 unique J



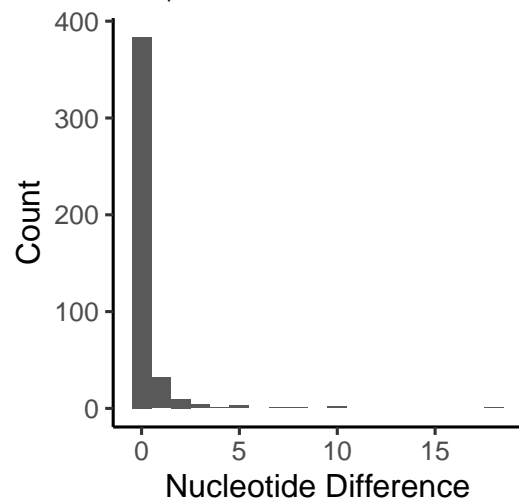
IGHV4-28*04

1 sequences assigned
No exact matches.



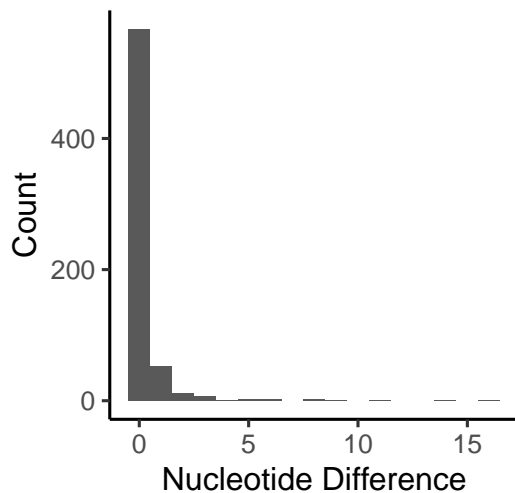
IGHV4-31*01

439 sequences assigned
384 (87.5%) exact matches, in which:
351 unique CDR3
6 unique J



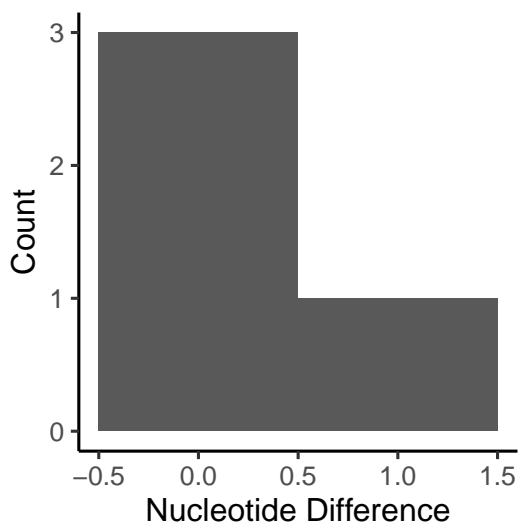
IGHV3-64D*06

651 sequences assigned
567 (87.1%) exact matches, in which:
501 unique CDR3
6 unique J



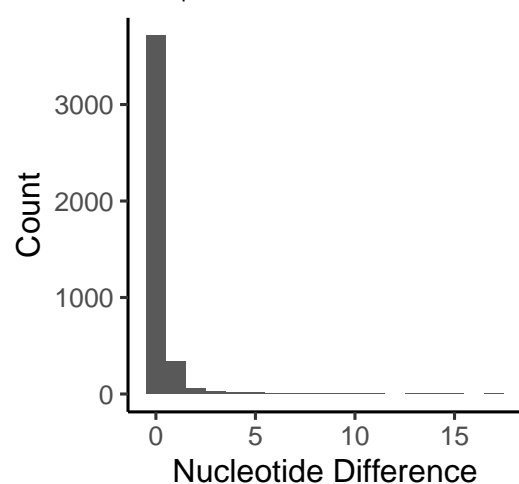
IGHV4-28*06

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
3 unique J



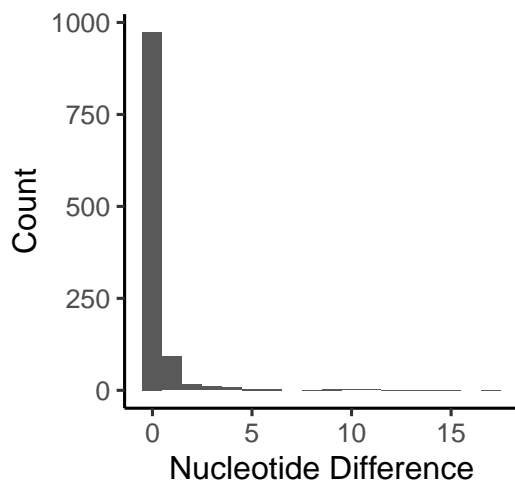
IGHV4-34*01

4186 sequences assigned
3713 (88.7%) exact matches, in which:
3299 unique CDR3
6 unique J



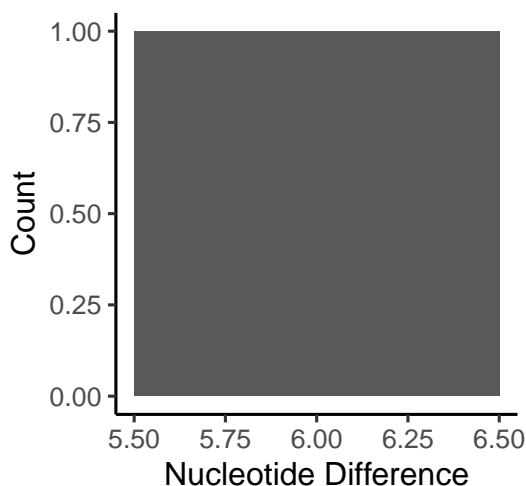
IGHV4-4*02

1122 sequences assigned
974 (86.8%) exact matches, in which:
911 unique CDR3
6 unique J



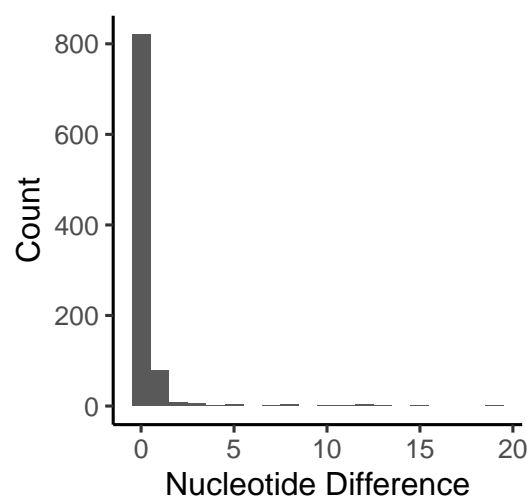
IGHV4-30-2*04

1 sequences assigned
No exact matches.



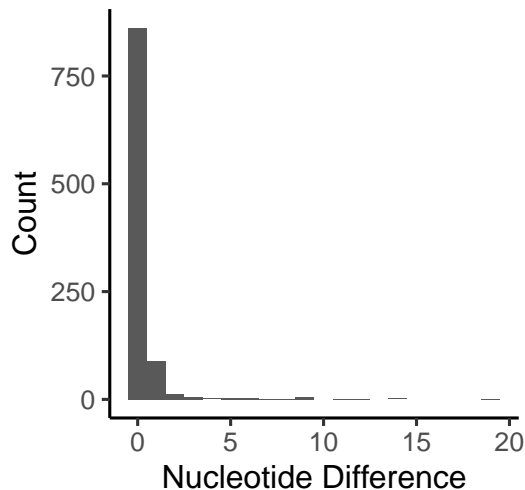
IGHV4-38-2*02

934 sequences assigned
821 (87.9%) exact matches, in which:
736 unique CDR3
6 unique J



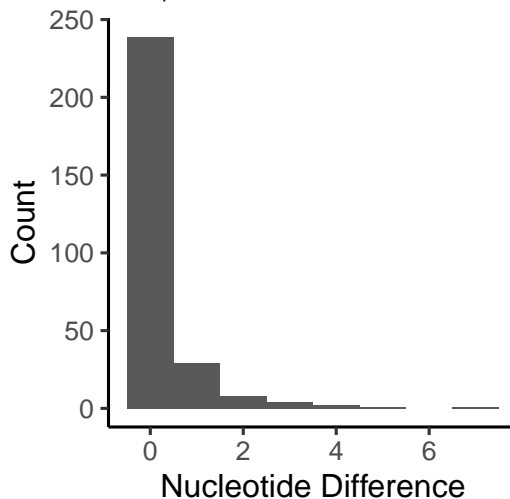
IGHV4–38–2*02_A70G

990 sequences assigned
862 (87.1%) exact matches, in which:
768 unique CDR3
6 unique J



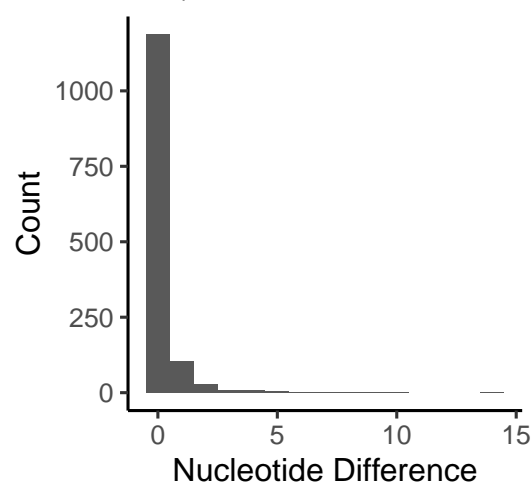
IGHV4–61*01

284 sequences assigned
239 (84.2%) exact matches, in which:
224 unique CDR3
6 unique J



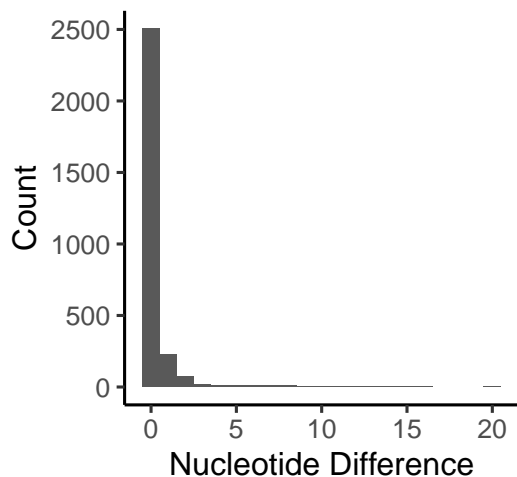
IGHV5–10–1*03

1351 sequences assigned
1187 (87.9%) exact matches, in which:
1090 unique CDR3
6 unique J



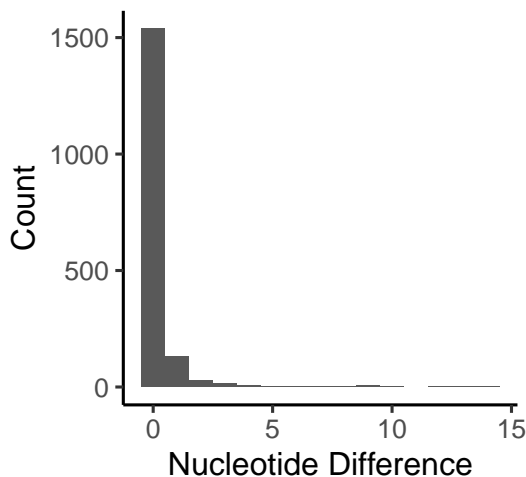
IGHV4–39*01

2897 sequences assigned
2505 (86.5%) exact matches, in which:
2222 unique CDR3
6 unique J



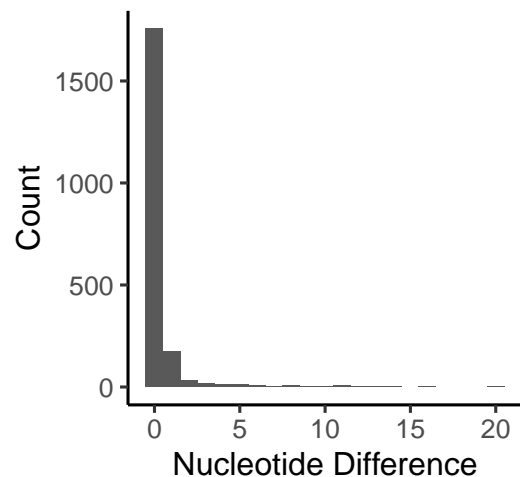
IGHV4–61*02

1745 sequences assigned
1538 (88.1%) exact matches, in which:
1419 unique CDR3
6 unique J



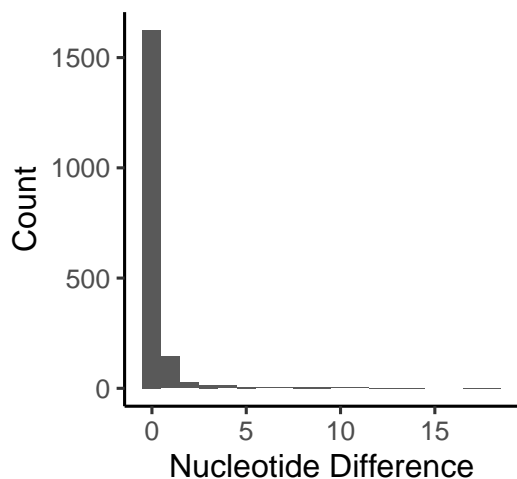
IGHV5–51*01

2043 sequences assigned
1756 (86%) exact matches, in which:
1586 unique CDR3
6 unique J



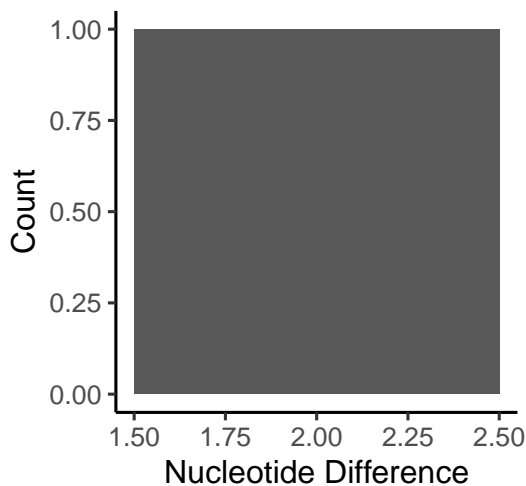
IGHV4–59*01

1863 sequences assigned
1625 (87.2%) exact matches, in which:
1526 unique CDR3
6 unique J



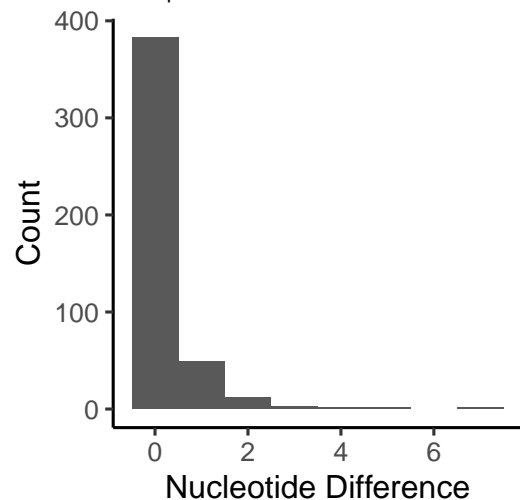
IGHV1/OR15–1*03

1 sequences assigned
No exact matches.



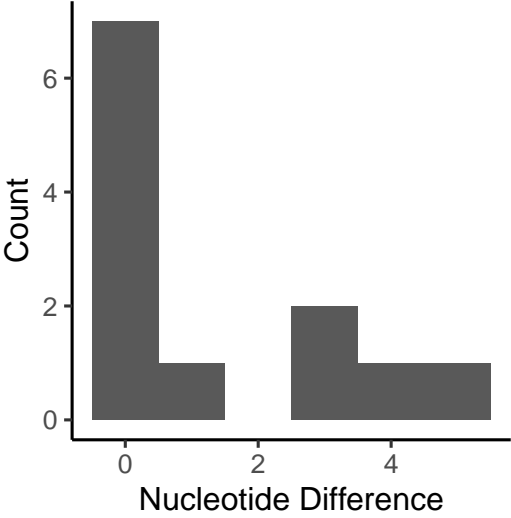
IGHV6–1*01

453 sequences assigned
383 (84.5%) exact matches, in which:
360 unique CDR3
6 unique J



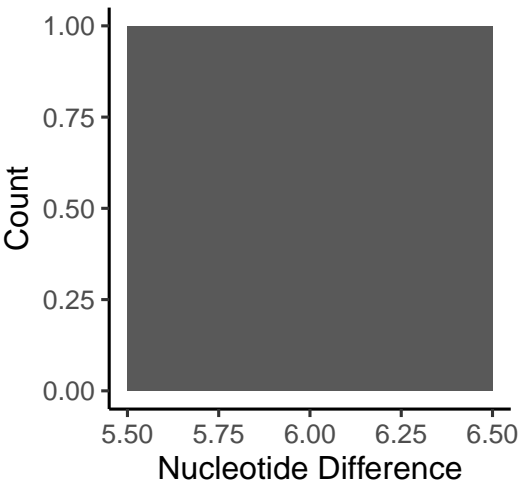
IGHV7-4-1*01

12 sequences assigned
7 (58.3%) exact matches, in which:
6 unique CDR3
4 unique J



IGHV7-81*01

1 sequences assigned
No exact matches.





Warning – no inferred sequences found.