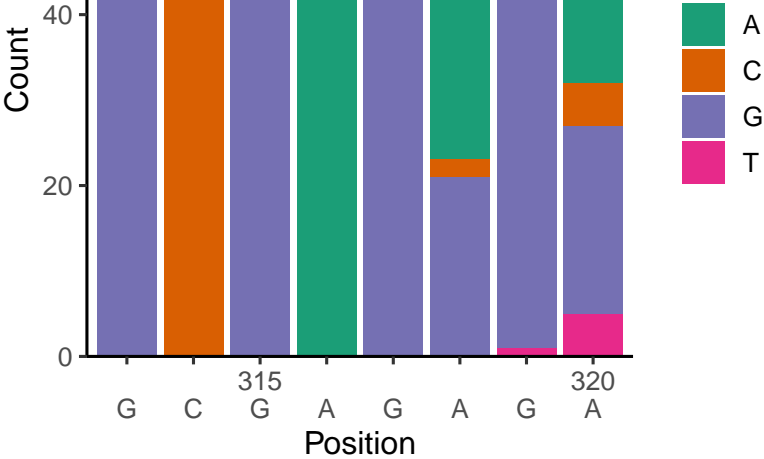
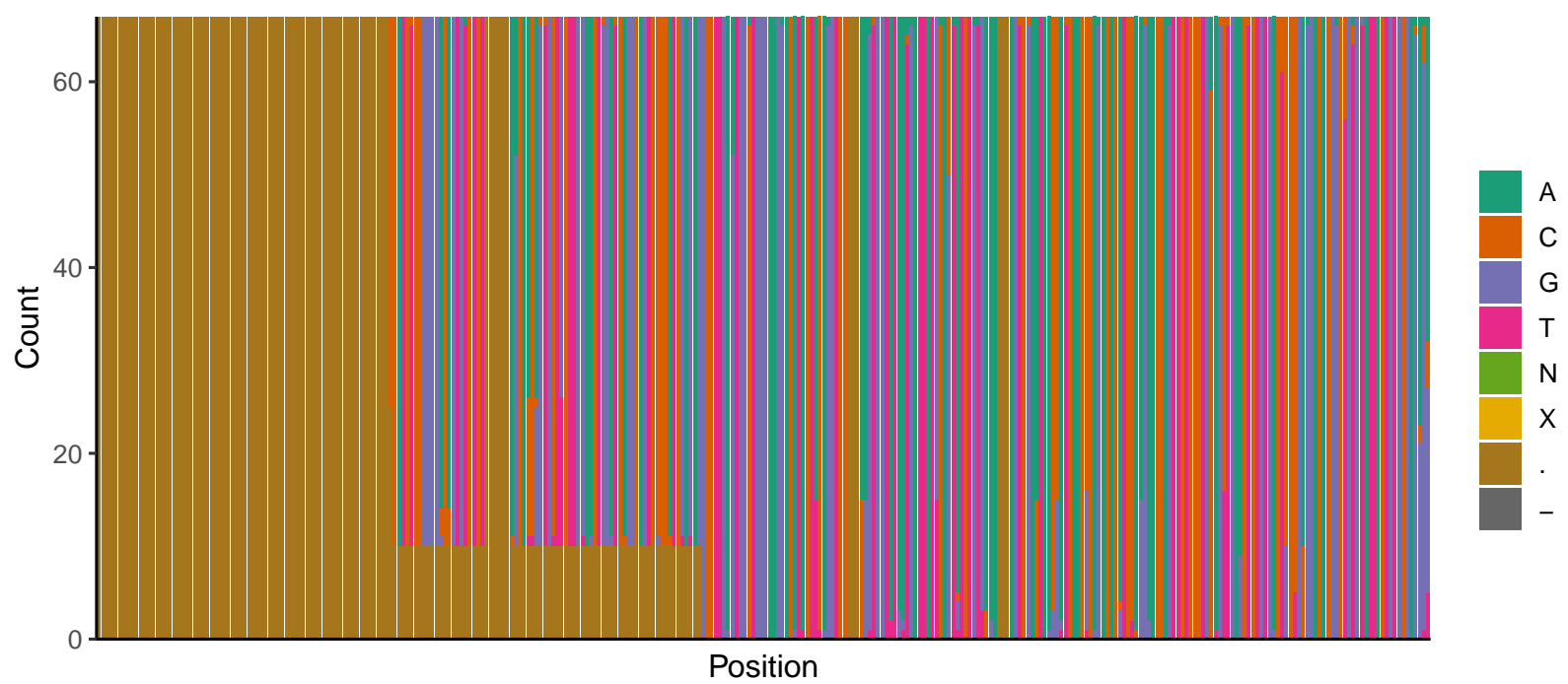


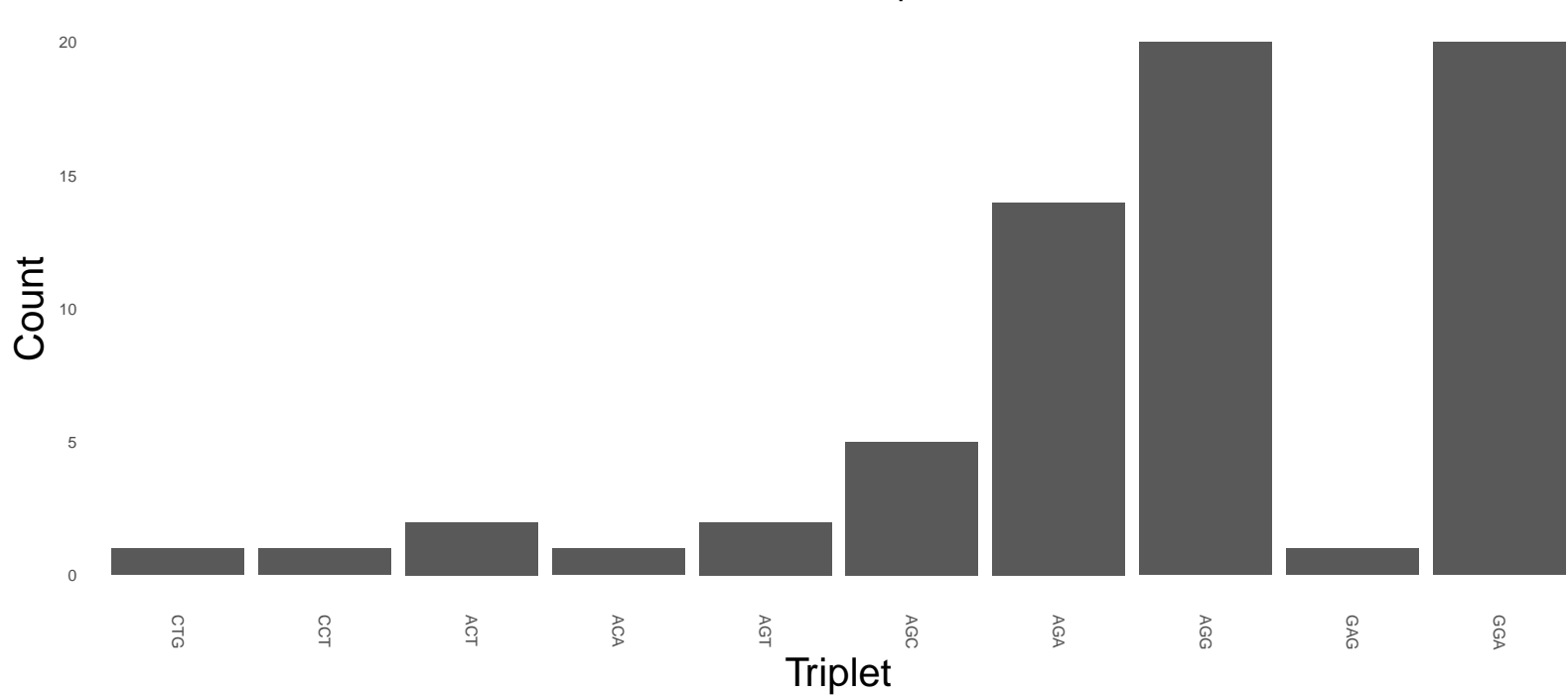
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

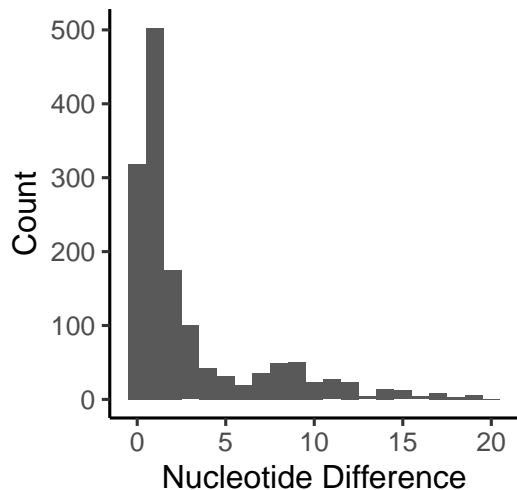


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



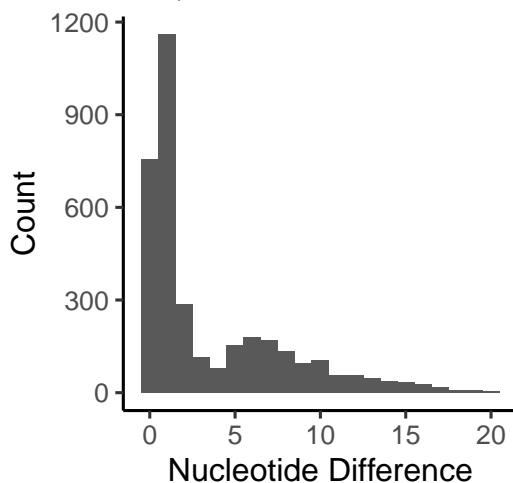
IGHV1-2*04

1482 sequences assigned
318 (21.5%) exact matches, in which:
260 unique CDR3
7 unique J



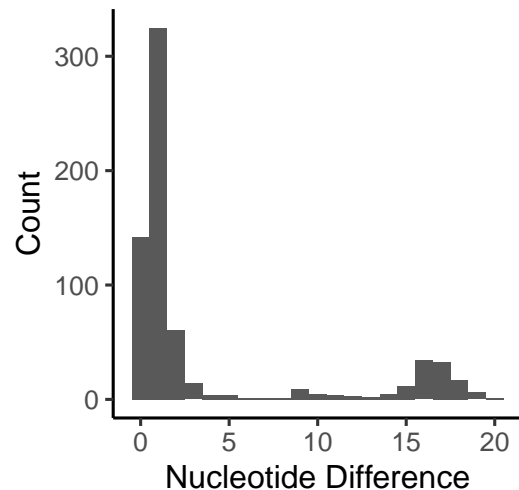
IGHV1-8*01

3791 sequences assigned
756 (19.9%) exact matches, in which:
587 unique CDR3
7 unique J



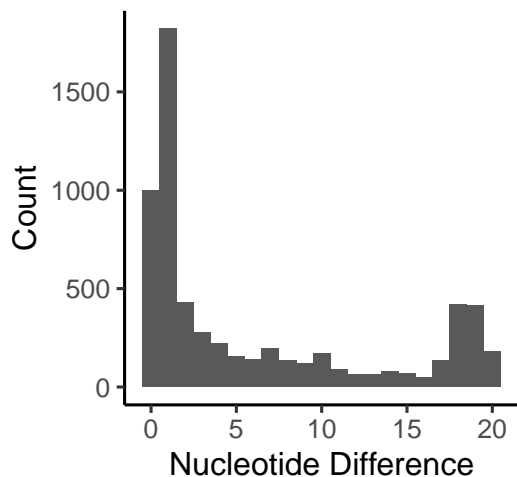
IGHV1-24*01

698 sequences assigned
142 (20.3%) exact matches, in which:
102 unique CDR3
5 unique J



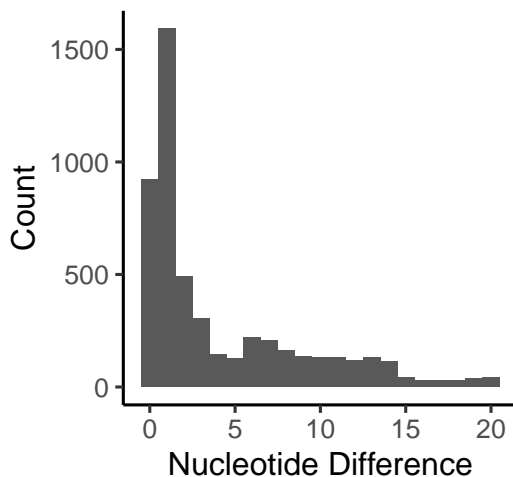
IGHV1-2*06

6390 sequences assigned
999 (15.6%) exact matches, in which:
736 unique CDR3
7 unique J



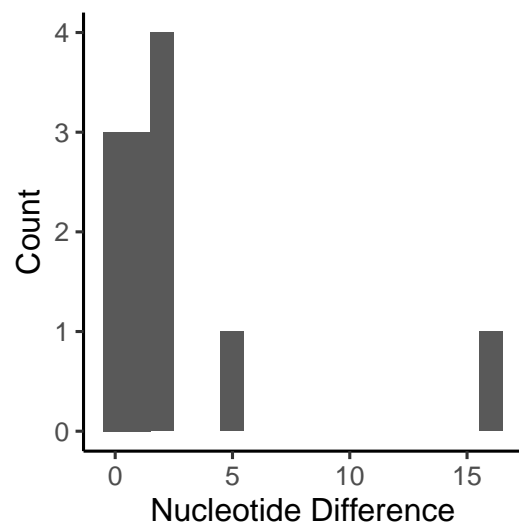
IGHV1-18*01

7300 sequences assigned
920 (12.6%) exact matches, in which:
688 unique CDR3
7 unique J



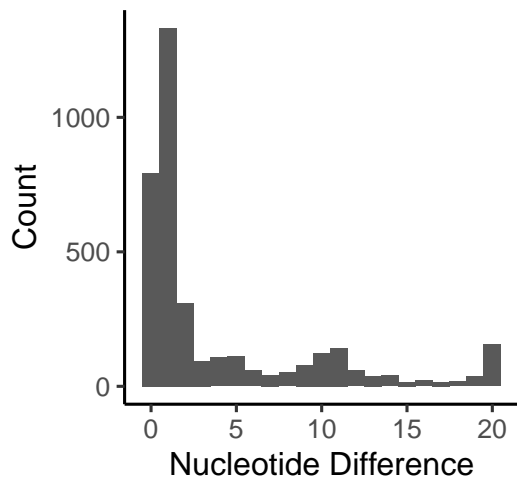
IGHV1-45*02

12 sequences assigned
3 (25%) exact matches, in which:
3 unique CDR3
0 unique J



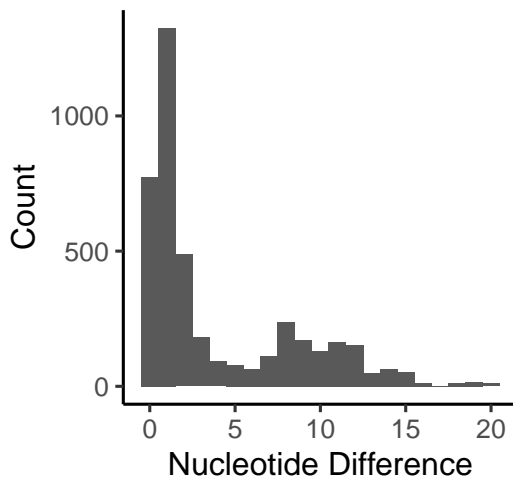
IGHV1-3*01_05

6254 sequences assigned
792 (12.7%) exact matches, in which:
540 unique CDR3
7 unique J



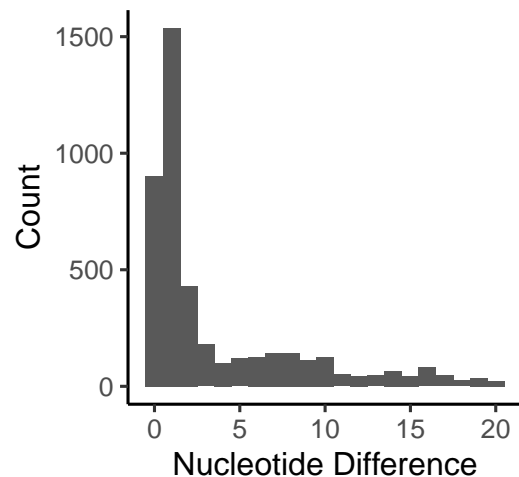
IGHV1-18*04

4944 sequences assigned
774 (15.7%) exact matches, in which:
592 unique CDR3
7 unique J



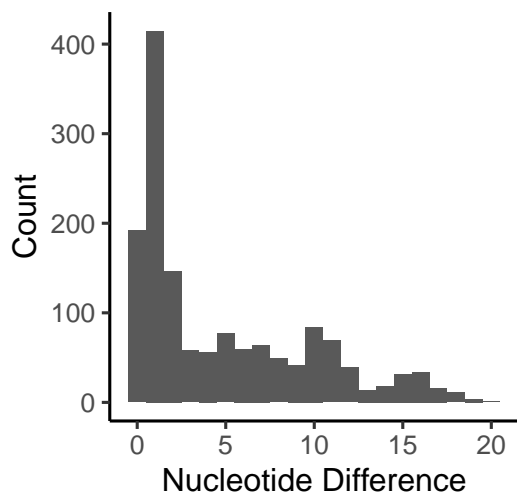
IGHV1-46*01

5655 sequences assigned
901 (15.9%) exact matches, in which:
675 unique CDR3
7 unique J



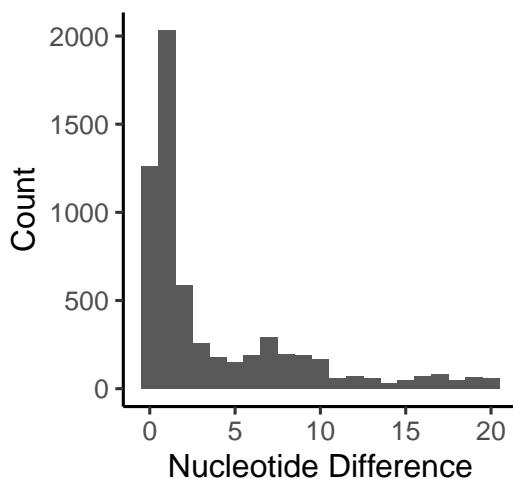
IGHV1–58*01_03

1486 sequences assigned
192 (12.9%) exact matches, in which:
137 unique CDR3
6 unique J



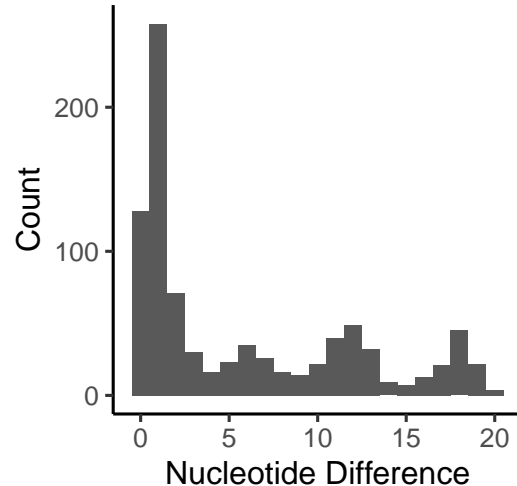
IGHV1–69*06_14

7019 sequences assigned
1262 (18%) exact matches, in which:
968 unique CDR3
7 unique J



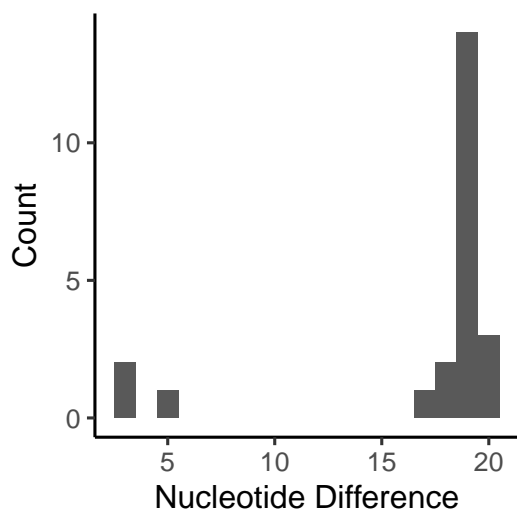
IGHV2–5*02

927 sequences assigned
128 (13.8%) exact matches, in which:
90 unique CDR3
5 unique J



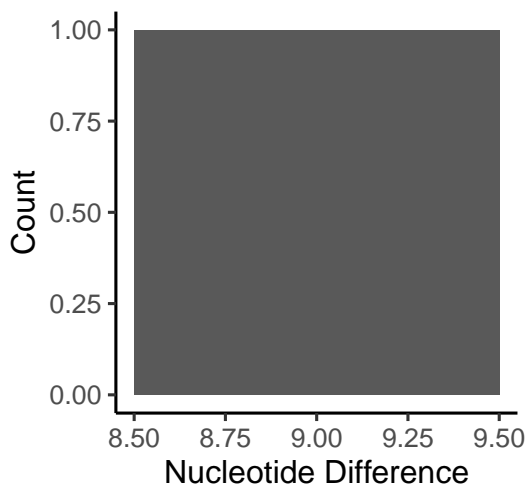
IGHV1–69–2*01

23 sequences assigned
No exact matches.



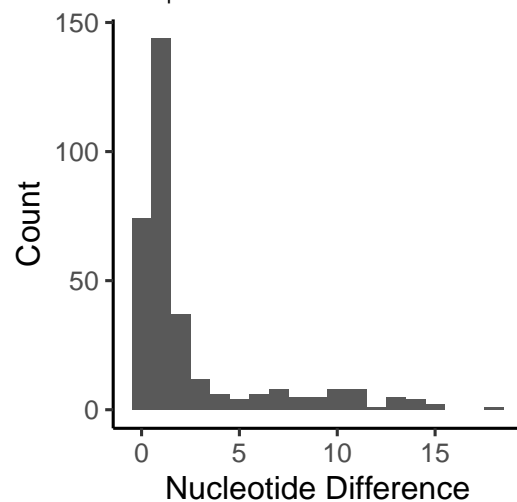
IGHV1–NL1*01

1 sequences assigned
No exact matches.



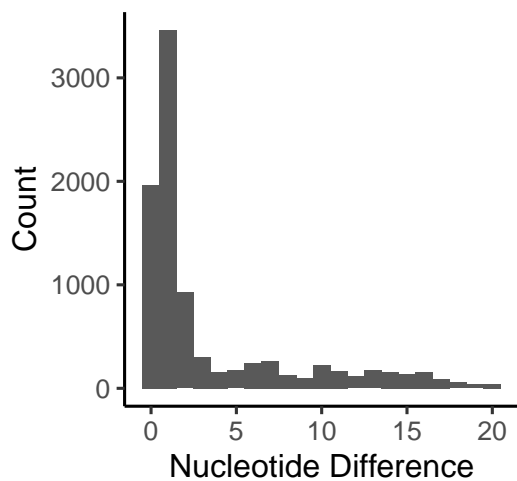
IGHV2–26*01

343 sequences assigned
74 (21.6%) exact matches, in which:
53 unique CDR3
5 unique J



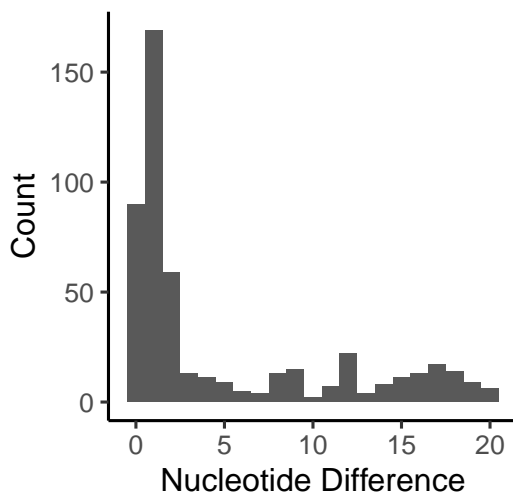
IGHV1–69*01_12_13

9869 sequences assigned
1963 (19.9%) exact matches, in which:
1456 unique CDR3
7 unique J



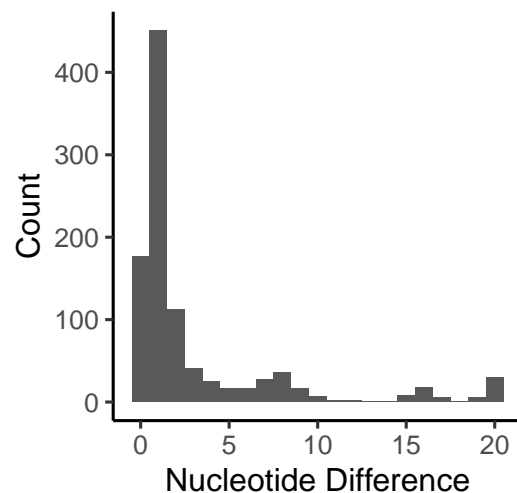
IGHV2–5*01

597 sequences assigned
90 (15.1%) exact matches, in which:
57 unique CDR3
6 unique J



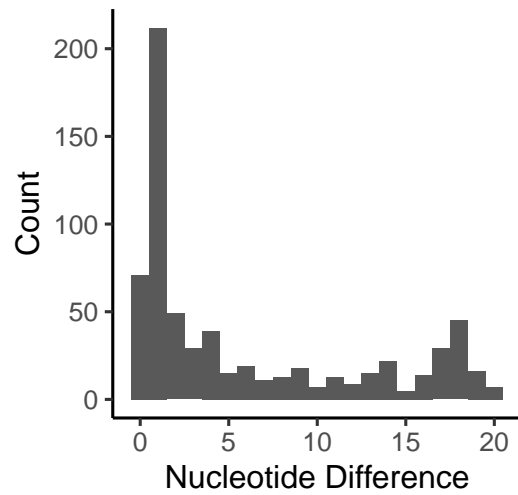
IGHV2–70*01

1133 sequences assigned
177 (15.6%) exact matches, in which:
110 unique CDR3
6 unique J



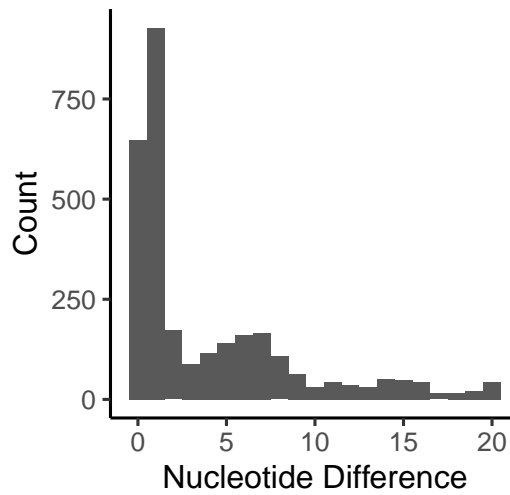
IGHV2-70*04

712 sequences assigned
71 (10%) exact matches, in which:
38 unique CDR3
6 unique J



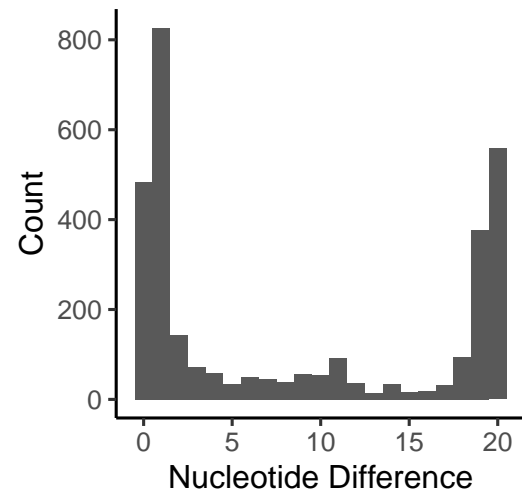
IGHV3-7*01

3335 sequences assigned
648 (19.4%) exact matches, in which:
423 unique CDR3
6 unique J



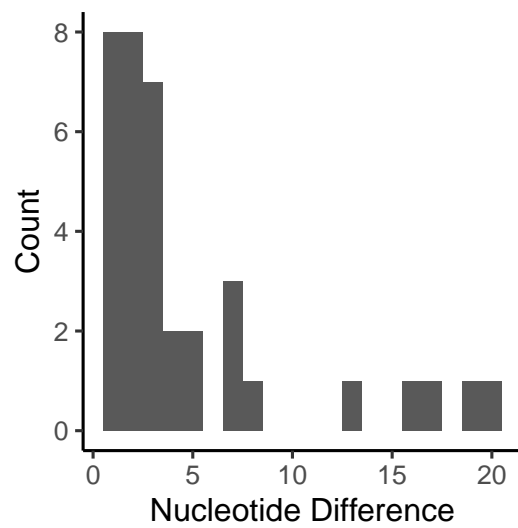
IGHV3-9*01

4669 sequences assigned
483 (10.3%) exact matches, in which:
286 unique CDR3
7 unique J



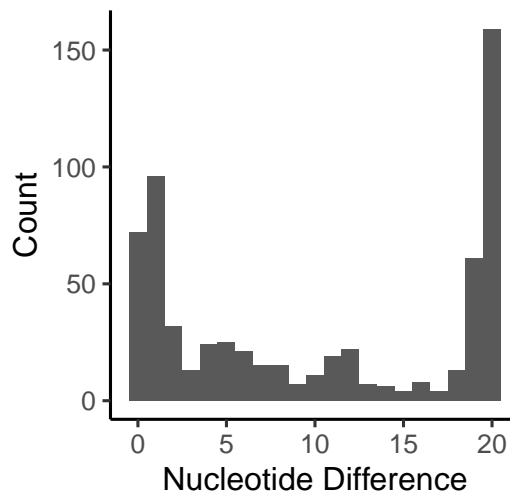
IGHV2-70*12

37 sequences assigned
No exact matches.



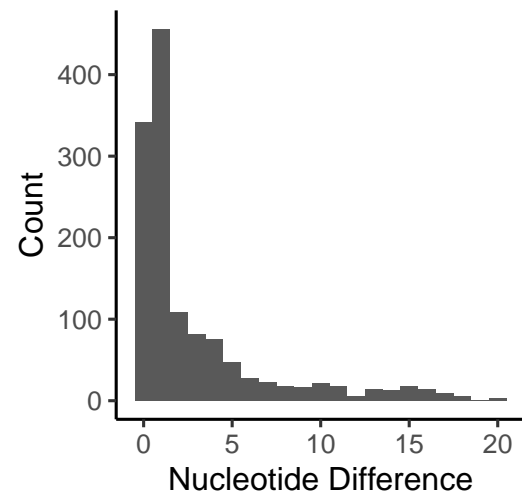
IGHV3-7*03

1118 sequences assigned
72 (6.4%) exact matches, in which:
53 unique CDR3
6 unique J



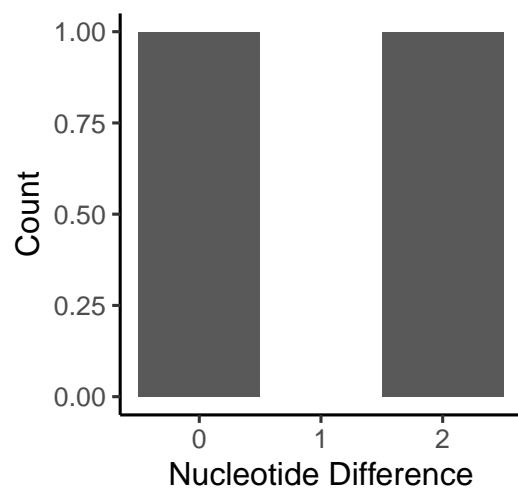
IGHV3-11*01

1348 sequences assigned
342 (25.4%) exact matches, in which:
231 unique CDR3
7 unique J



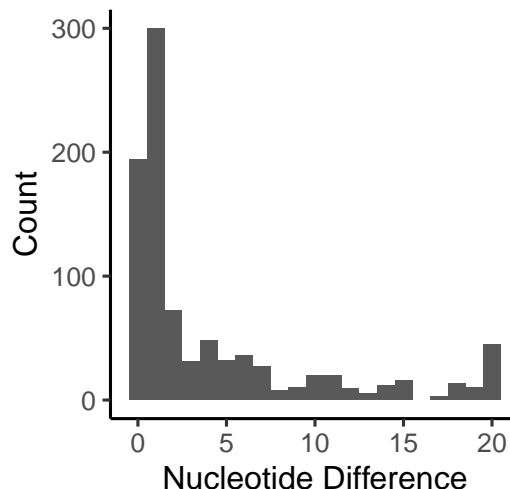
IGHV2-70D*14

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



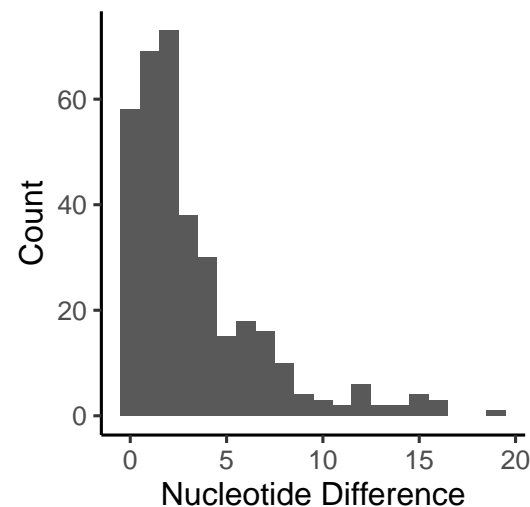
IGHV3-7*05

1050 sequences assigned
194 (18.5%) exact matches, in which:
117 unique CDR3
6 unique J



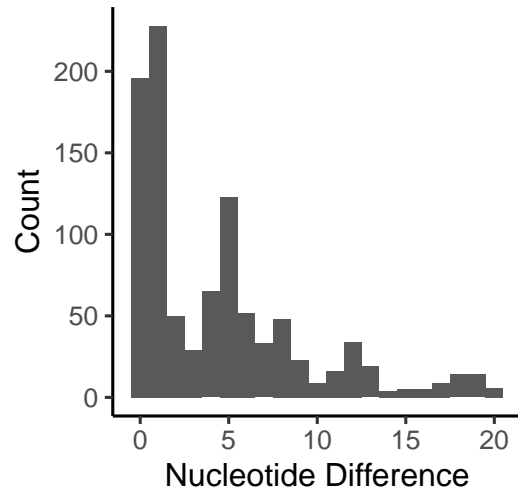
IGHV3-11*04

362 sequences assigned
58 (16%) exact matches, in which:
53 unique CDR3
6 unique J



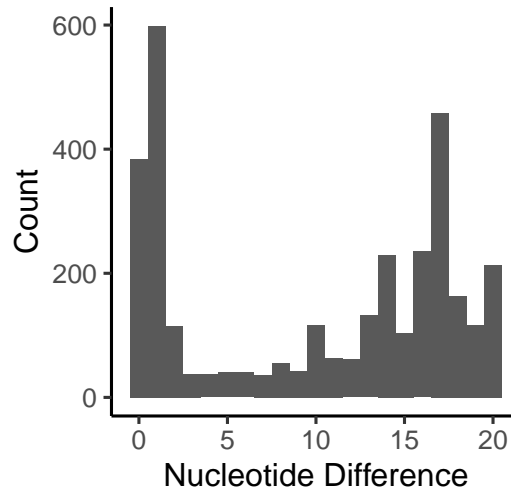
IGHV3-11*06

1018 sequences assigned
196 (19.3%) exact matches, in which:
141 unique CDR3
6 unique J



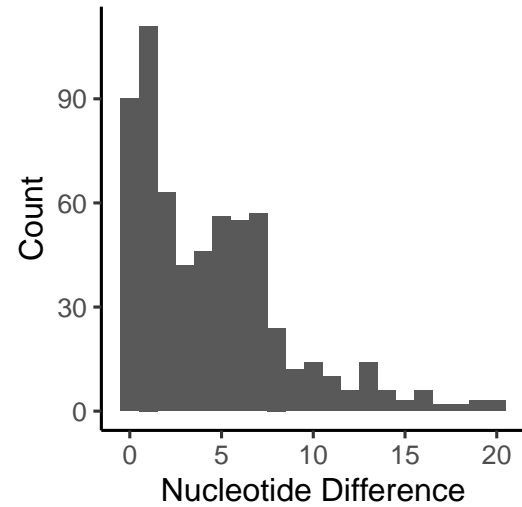
IGHV3-15*01_02

4091 sequences assigned
384 (9.4%) exact matches, in which:
226 unique CDR3
7 unique J



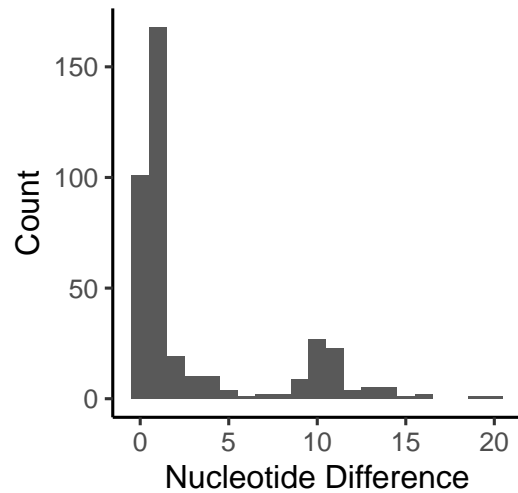
IGHV3-21*04

642 sequences assigned
90 (14%) exact matches, in which:
73 unique CDR3
7 unique J



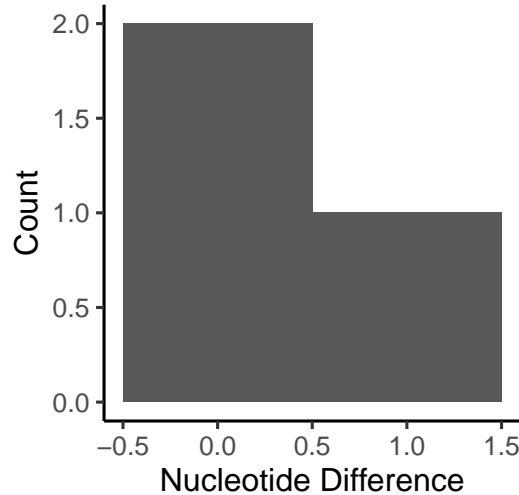
IGHV3-13*01

429 sequences assigned
101 (23.5%) exact matches, in which:
52 unique CDR3
5 unique J



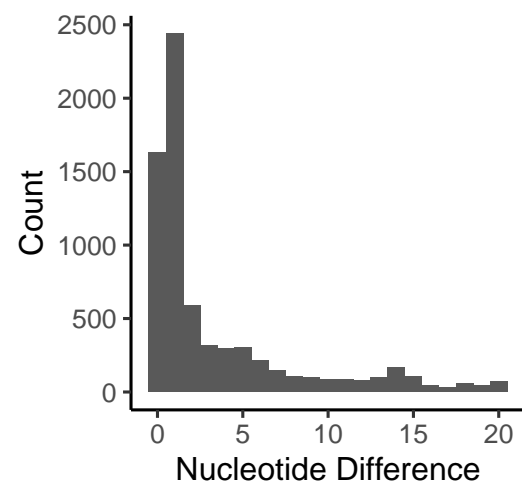
IGHV3-20*01_02

3 sequences assigned
2 (66.7%) exact matches, in which:
1 unique CDR3
1 unique J



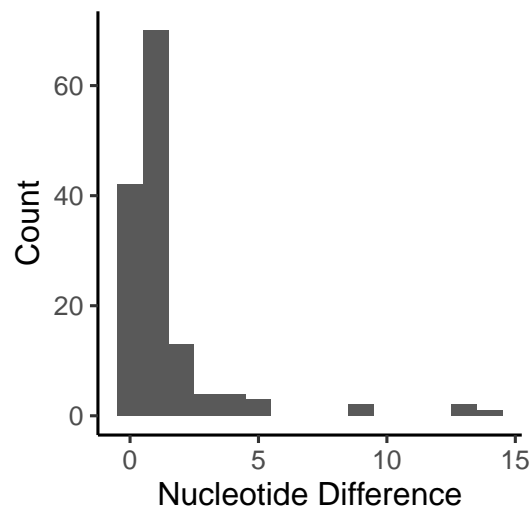
IGHV3-21*01_02

7318 sequences assigned
1632 (22.3%) exact matches, in which:
987 unique CDR3
7 unique J



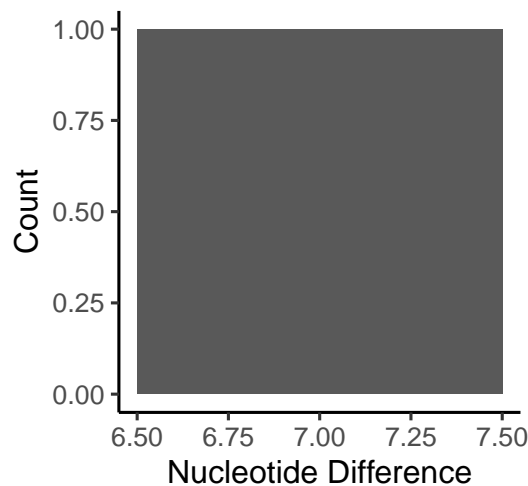
IGHV3-13*05

142 sequences assigned
42 (29.6%) exact matches, in which:
26 unique CDR3
6 unique J



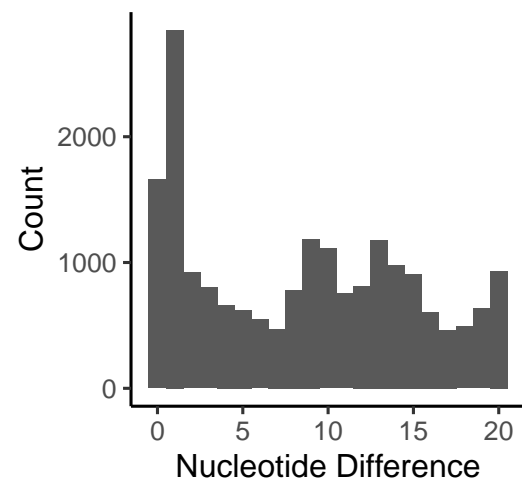
IGHV3-20*03_04

5 sequences assigned
No exact matches.



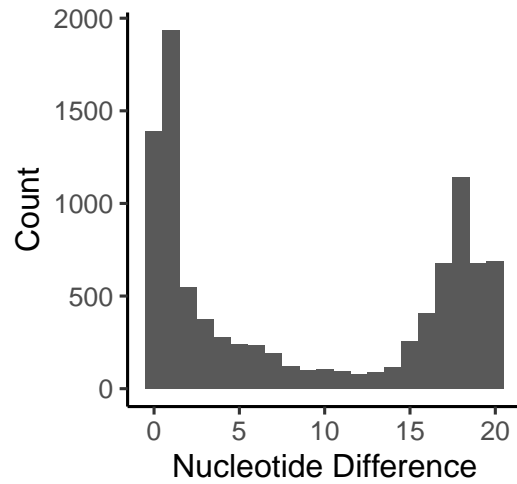
IGHV3-23*01_04

23828 sequences assigned
1661 (7%) exact matches, in which:
934 unique CDR3
7 unique J



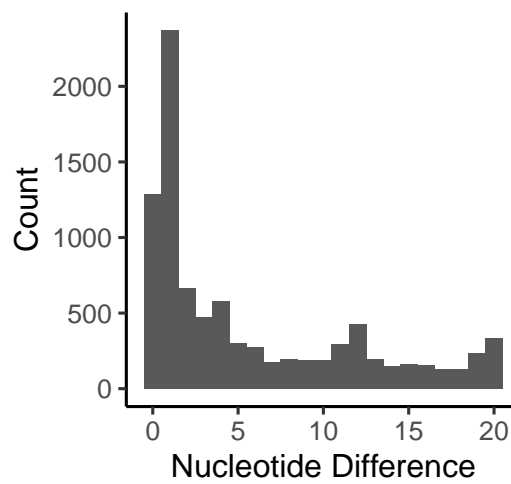
IGHV3-30-3*01

13410 sequences assigned
1392 (10.4%) exact matches, in which:
894 unique CDR3
7 unique J



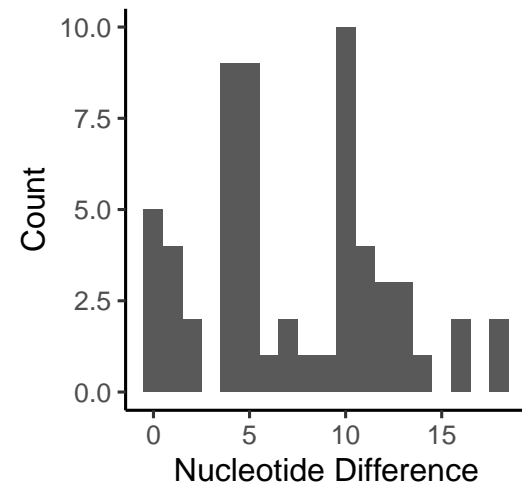
IGHV3-33*01

9379 sequences assigned
1286 (13.7%) exact matches, in which:
791 unique CDR3
7 unique J



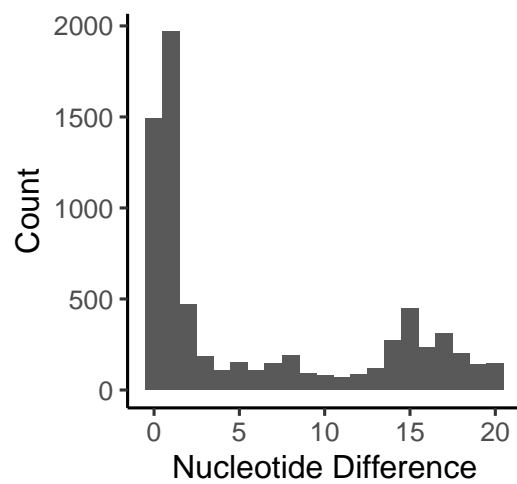
IGHV3-43*01

61 sequences assigned
5 (8.2%) exact matches, in which:
2 unique CDR3
1 unique J



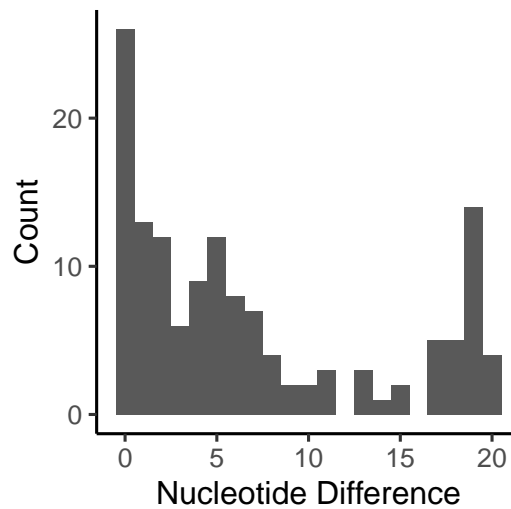
IGHV3-30*03

9733 sequences assigned
1494 (15.3%) exact matches, in which:
917 unique CDR3
7 unique J



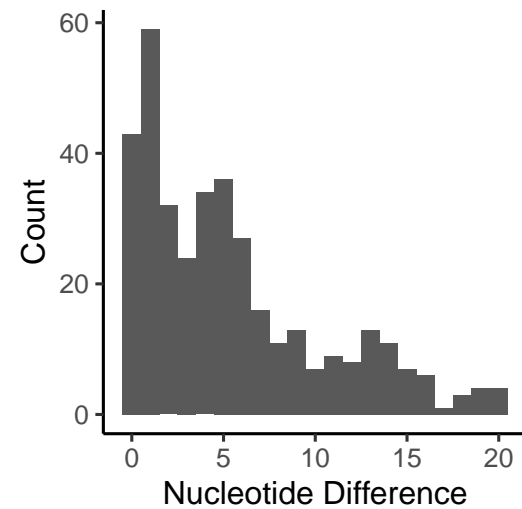
IGHV3-33*05

143 sequences assigned
26 (18.2%) exact matches, in which:
22 unique CDR3
5 unique J



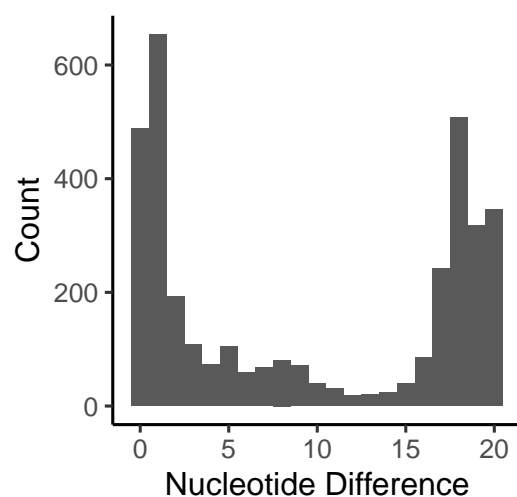
IGHV3-48*01

522 sequences assigned
43 (8.2%) exact matches, in which:
40 unique CDR3
5 unique J



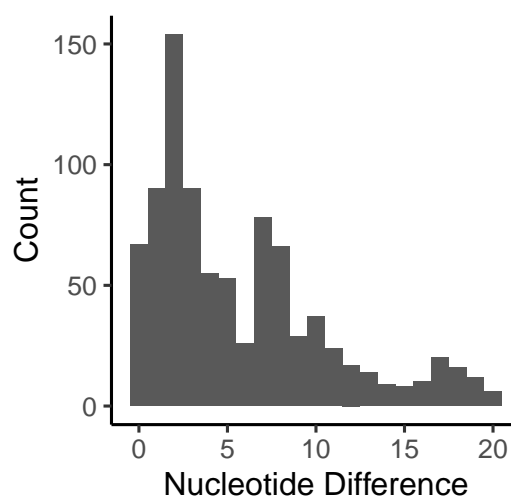
IGHV3-30*18

4012 sequences assigned
488 (12.2%) exact matches, in which:
300 unique CDR3
7 unique J



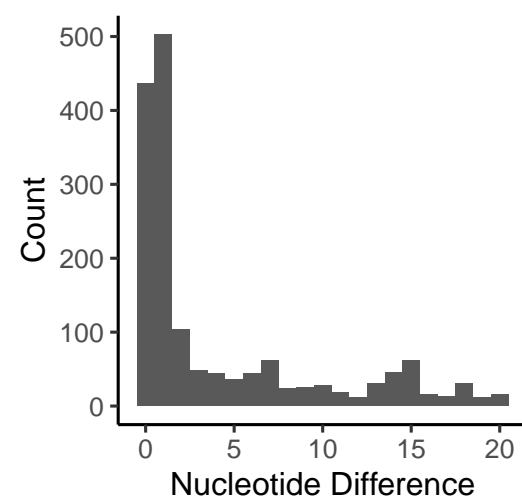
IGHV3-33*06

914 sequences assigned
67 (7.3%) exact matches, in which:
58 unique CDR3
6 unique J



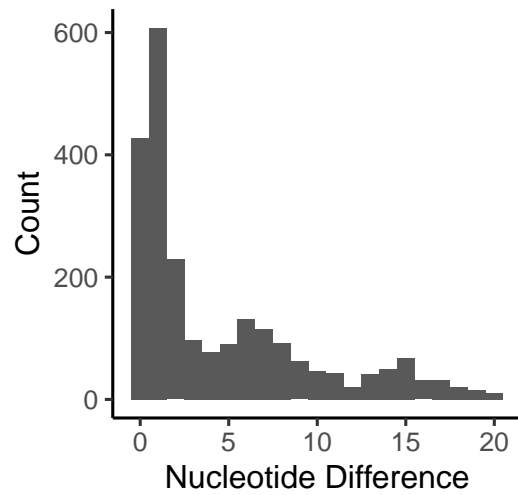
IGHV3-48*02

1648 sequences assigned
437 (26.5%) exact matches, in which:
273 unique CDR3
6 unique J



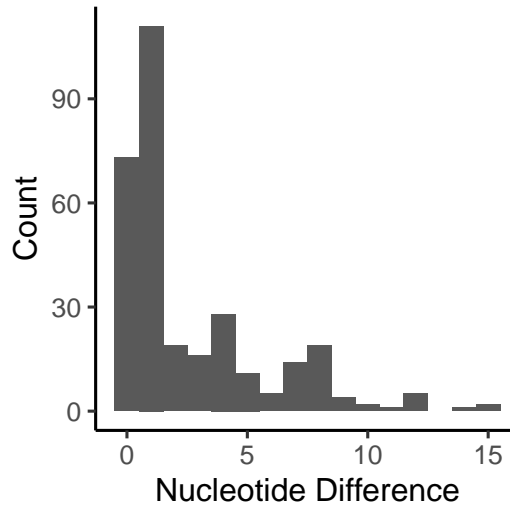
IGHV3-48*03

2427 sequences assigned
428 (17.6%) exact matches, in which:
255 unique CDR3
6 unique J



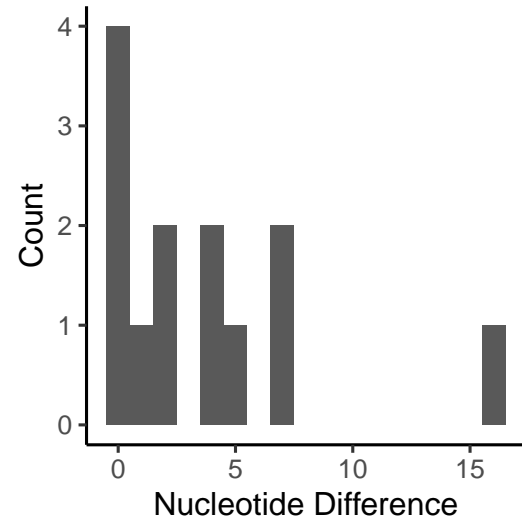
IGHV3-49*03_05

318 sequences assigned
73 (23%) exact matches, in which:
42 unique CDR3
7 unique J



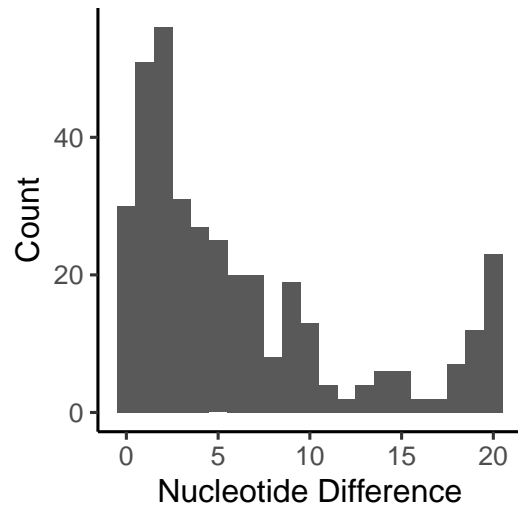
IGHV3-64*02_07

13 sequences assigned
4 (30.8%) exact matches, in which:
4 unique CDR3
2 unique J



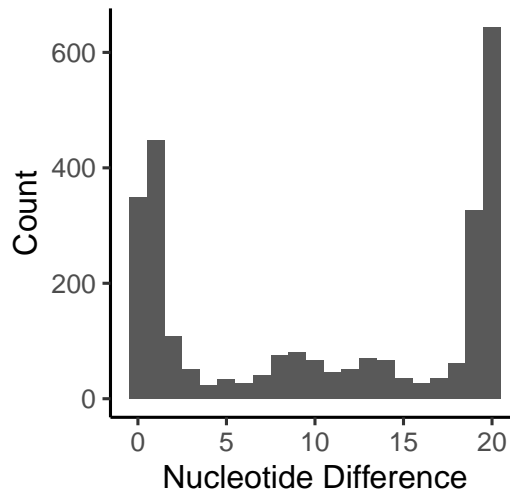
IGHV3-48*04

561 sequences assigned
30 (5.3%) exact matches, in which:
27 unique CDR3
5 unique J



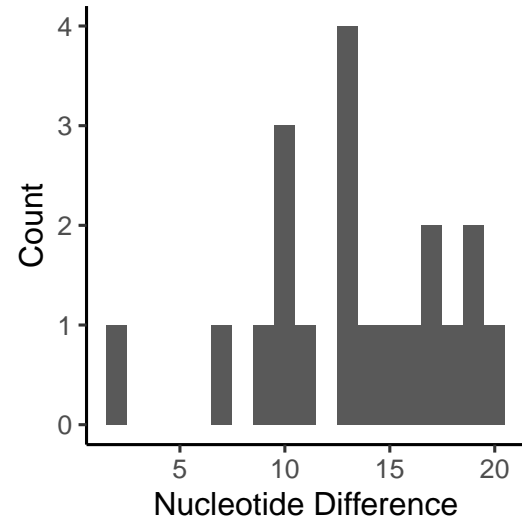
IGHV3-53*01_02

4008 sequences assigned
349 (8.7%) exact matches, in which:
230 unique CDR3
7 unique J



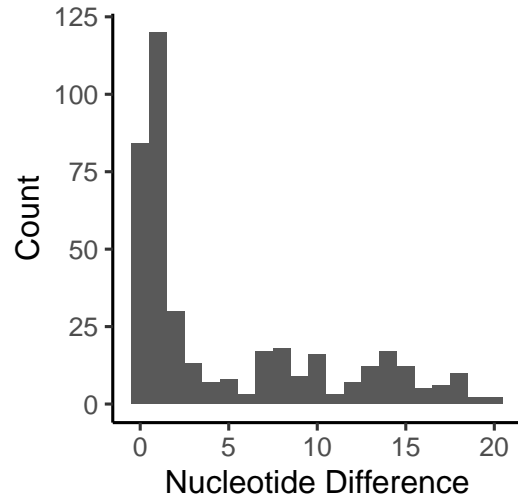
IGHV3-66*01

24 sequences assigned
No exact matches.



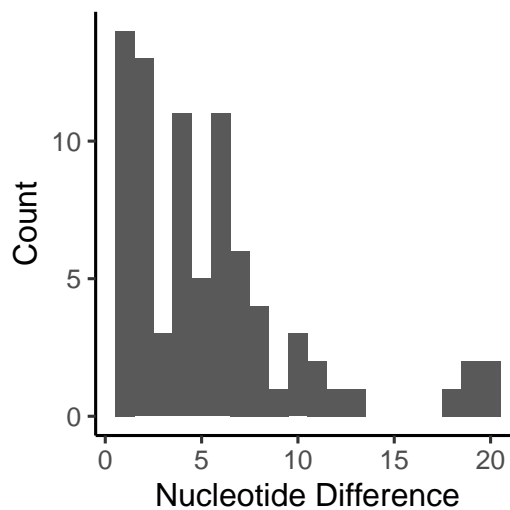
IGHV3-49*04

415 sequences assigned
84 (20.2%) exact matches, in which:
50 unique CDR3
5 unique J



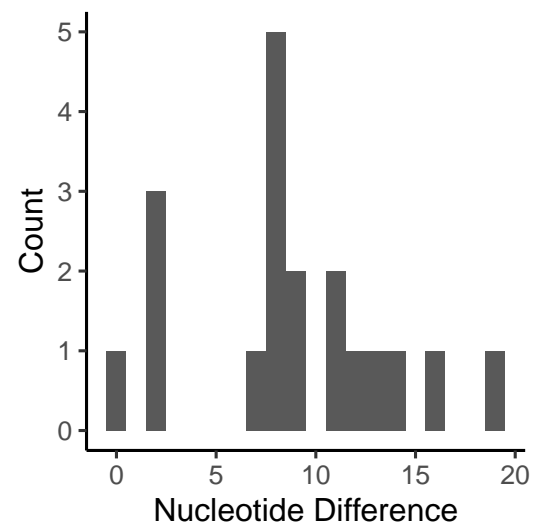
IGHV3-64*04

83 sequences assigned
No exact matches.



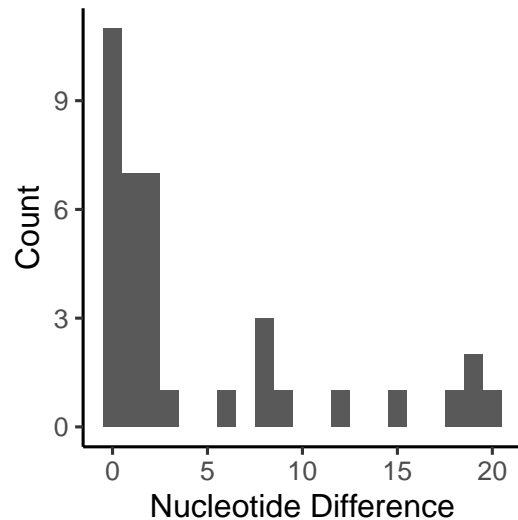
IGHV3-66*02

24 sequences assigned
1 (4.2%) exact matches, in which:
1 unique CDR3
1 unique J



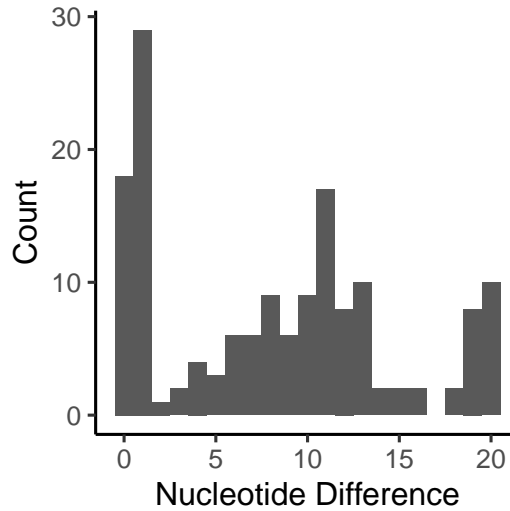
IGHV3-66*03

42 sequences assigned
11 (26.2%) exact matches, in which:
10 unique CDR3
4 unique J



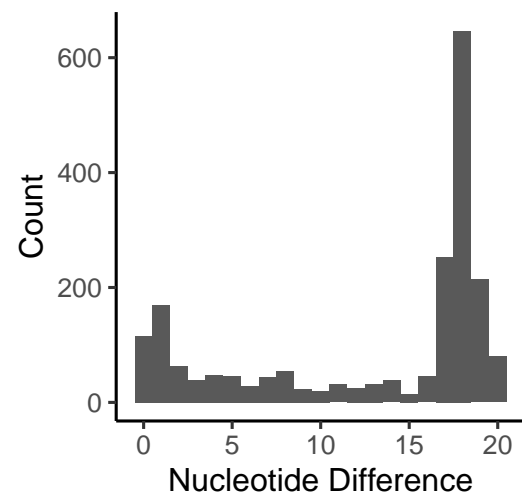
IGHV3-72*01

163 sequences assigned
18 (11%) exact matches, in which:
11 unique CDR3
3 unique J



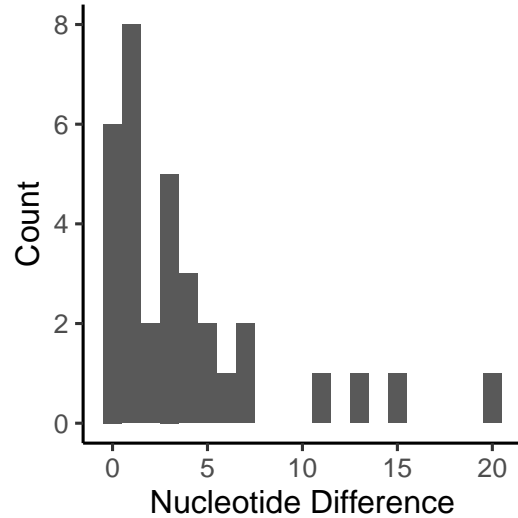
IGHV3-74*01_02

2307 sequences assigned
116 (5%) exact matches, in which:
81 unique CDR3
7 unique J



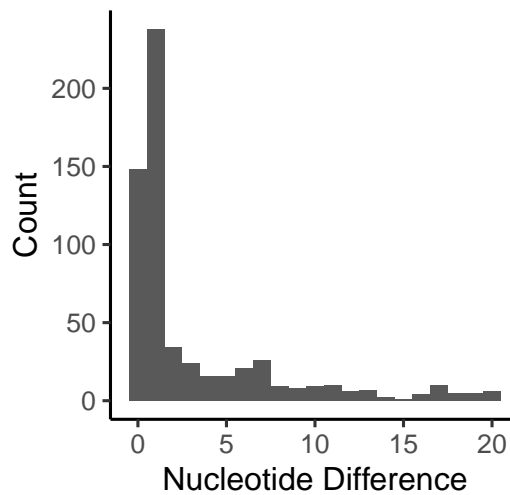
IGHV3-69-1*01

35 sequences assigned
6 (17.1%) exact matches, in which:
6 unique CDR3
3 unique J



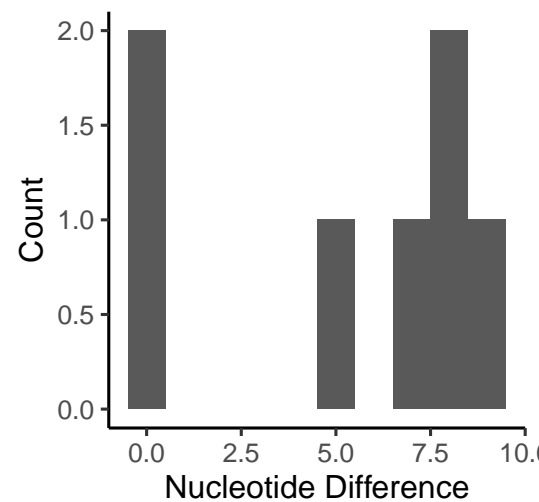
IGHV3-73*01_02

709 sequences assigned
148 (20.9%) exact matches, in which:
95 unique CDR3
7 unique J



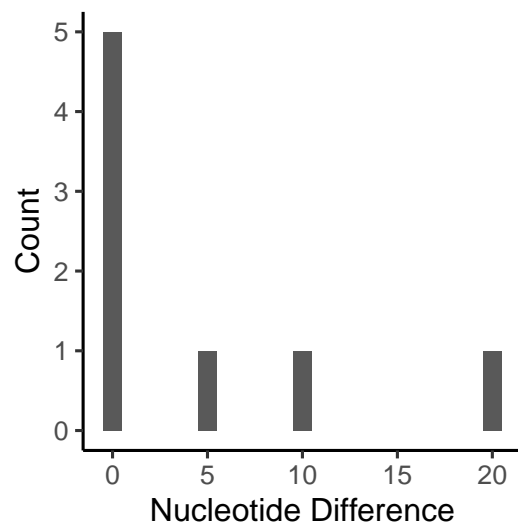
IGHV3-43D*04

7 sequences assigned
2 (28.6%) exact matches, in which:
1 unique CDR3
1 unique J



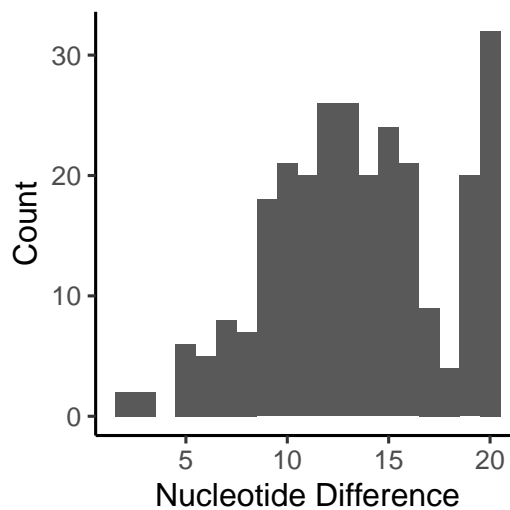
IGHV3-69-1*02

10 sequences assigned
5 (50%) exact matches, in which:
5 unique CDR3
2 unique J



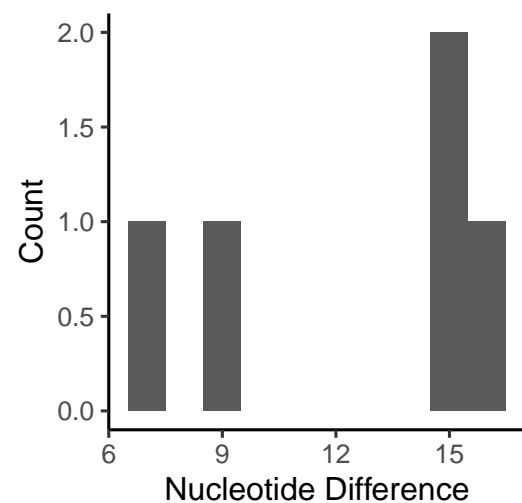
IGHV3-74*03

410 sequences assigned
No exact matches.



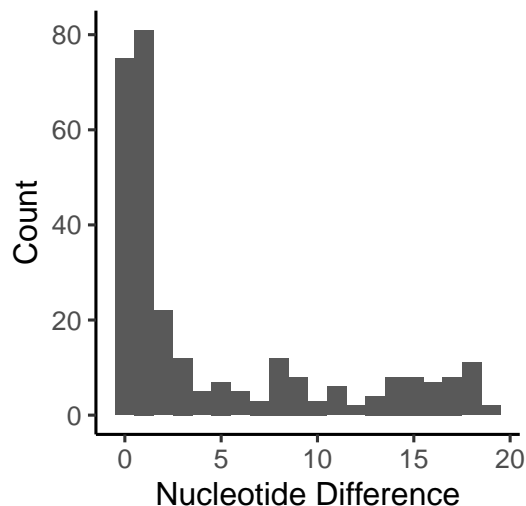
IGHV3-64D*06

6 sequences assigned
No exact matches.



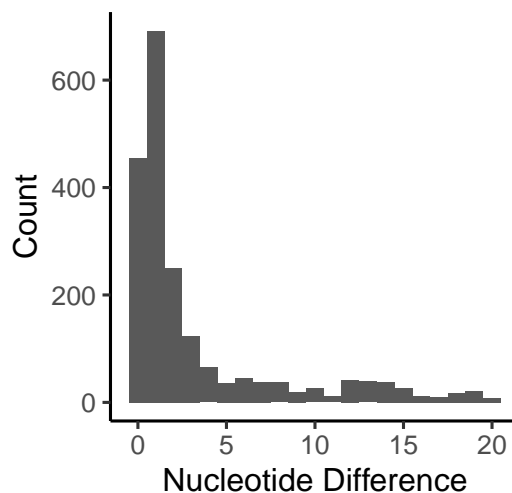
IGHV3-64D*08

328 sequences assigned
75 (22.9%) exact matches, in which:
38 unique CDR3
3 unique J



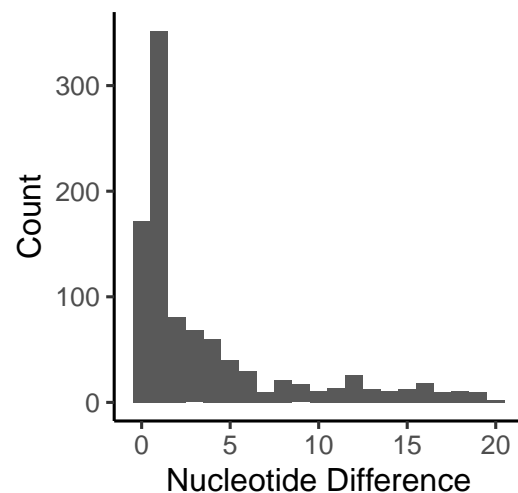
IGHV4-4*02_03

2089 sequences assigned
455 (21.8%) exact matches, in which:
327 unique CDR3
7 unique J



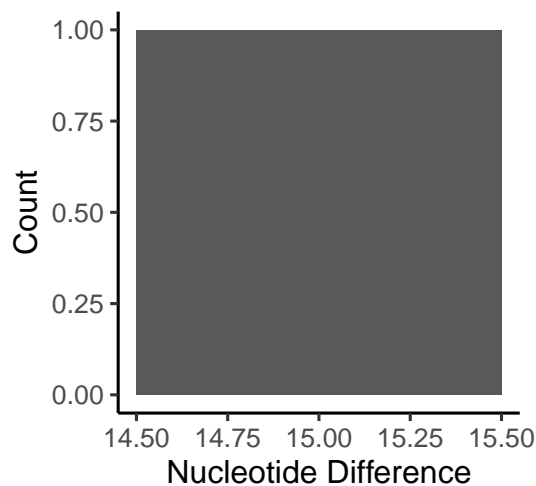
IGHV4-30-4*01

1055 sequences assigned
172 (16.3%) exact matches, in which:
113 unique CDR3
6 unique J



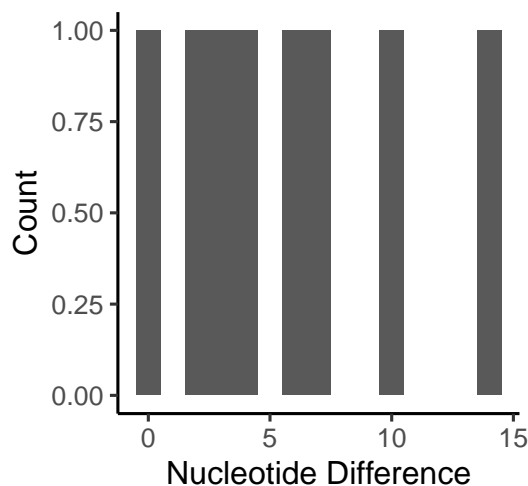
IGHV3-64D*09

1 sequences assigned
No exact matches.



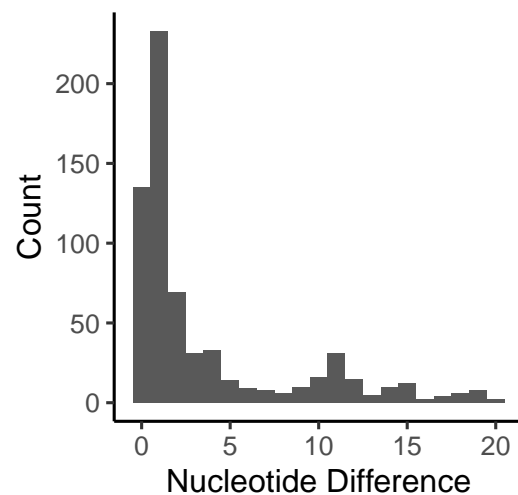
IGHV4-28*03

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



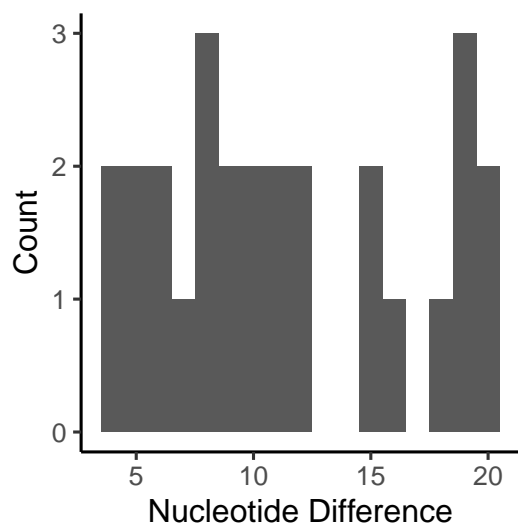
IGHV4-30-2*01

668 sequences assigned
135 (20.2%) exact matches, in which:
66 unique CDR3
6 unique J



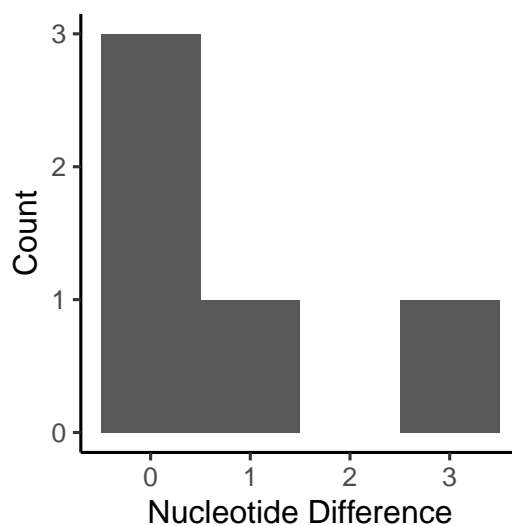
IGHV3-NL1*01

58 sequences assigned
No exact matches.



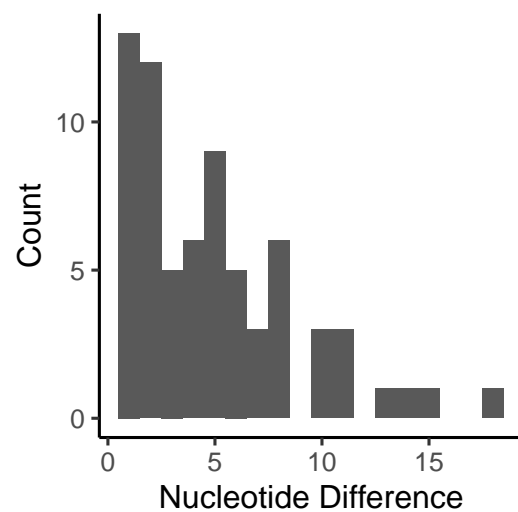
IGHV4-28*01_07

5 sequences assigned
3 (60%) exact matches, in which:
2 unique CDR3
1 unique J



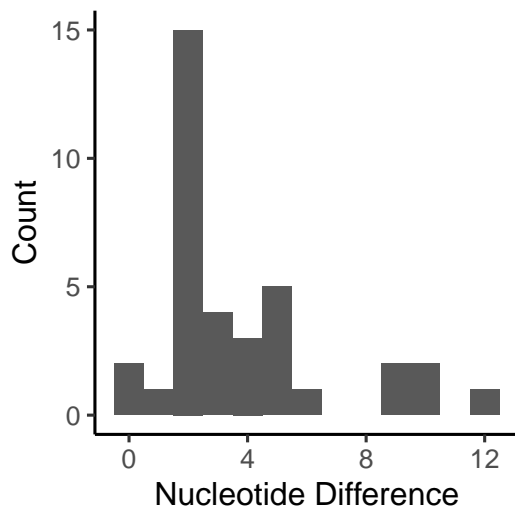
IGHV4-30-2*03

73 sequences assigned
No exact matches.



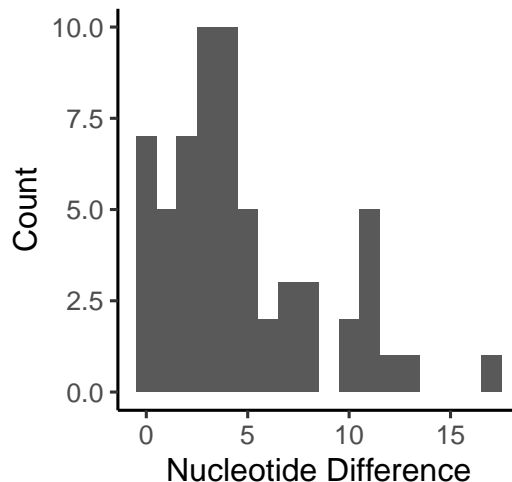
IGHV4-30-2*05

37 sequences assigned
2 (5.4%) exact matches, in which:
2 unique CDR3
2 unique J



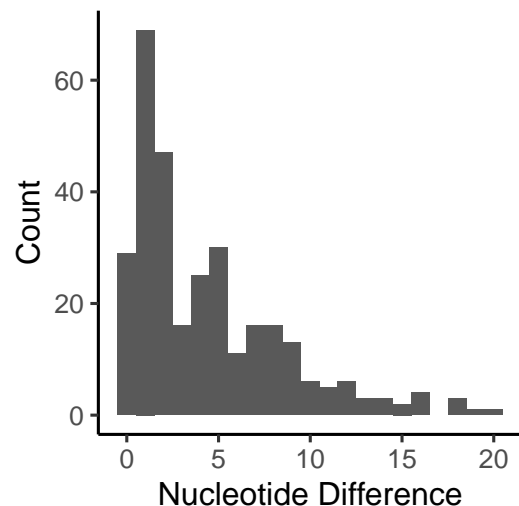
IGHV4-38-2*02

82 sequences assigned
7 (8.5%) exact matches, in which:
6 unique CDR3
2 unique J



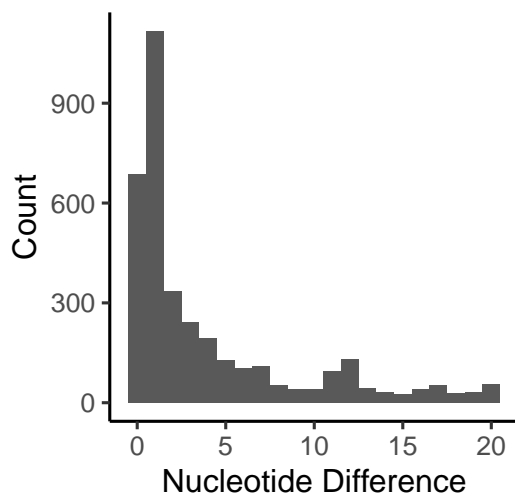
IGHV4-59*08

337 sequences assigned
29 (8.6%) exact matches, in which:
27 unique CDR3
4 unique J



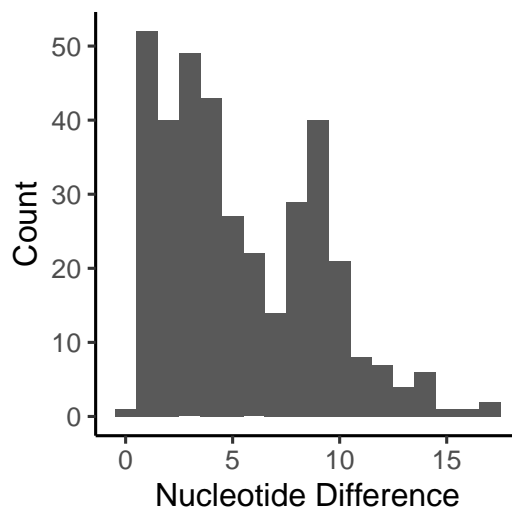
IGHV4-31*02

4039 sequences assigned
688 (17%) exact matches, in which:
498 unique CDR3
7 unique J



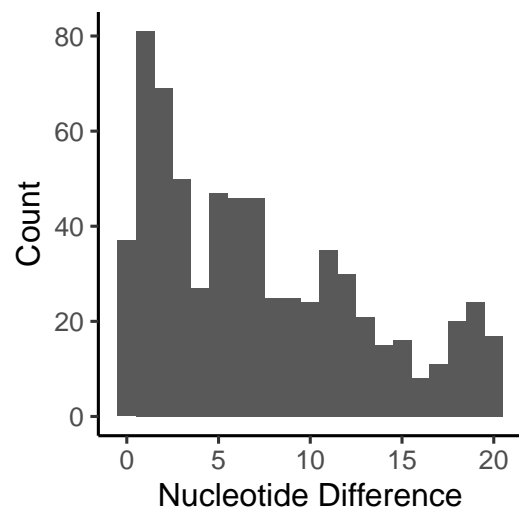
IGHV4-39*07

867 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



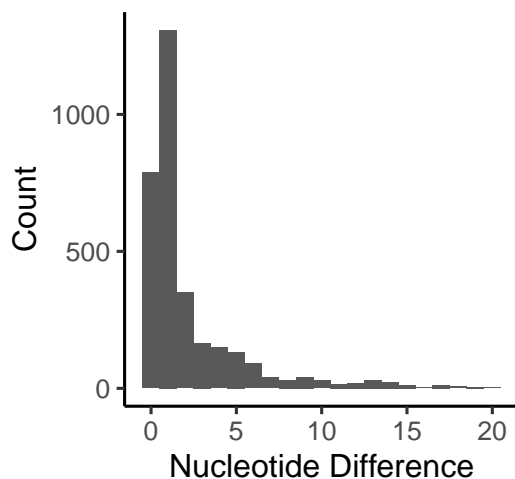
IGHV4-59*12

1026 sequences assigned
37 (3.6%) exact matches, in which:
37 unique CDR3
7 unique J



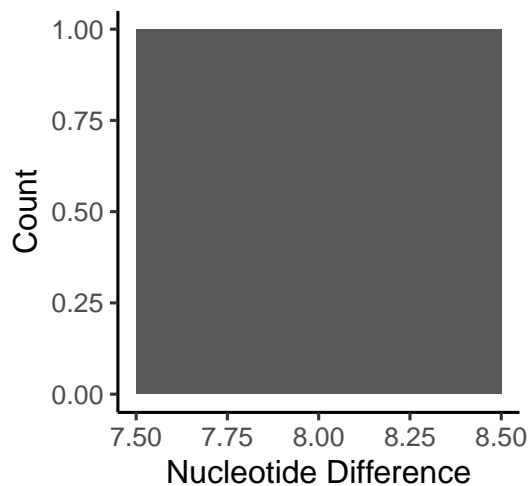
IGHV4-34*01_02

3475 sequences assigned
788 (22.7%) exact matches, in which:
498 unique CDR3
7 unique J



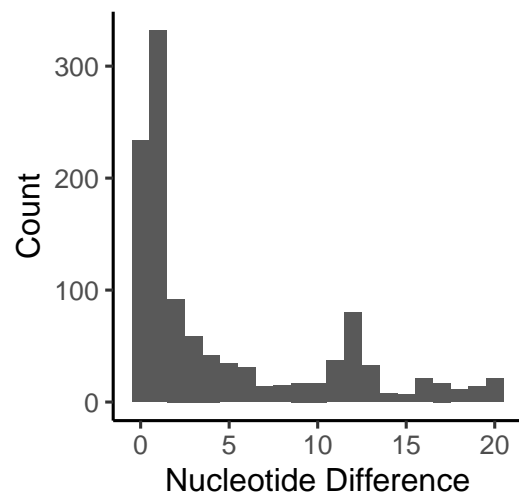
IGHV4-55*09

1 sequences assigned
No exact matches.



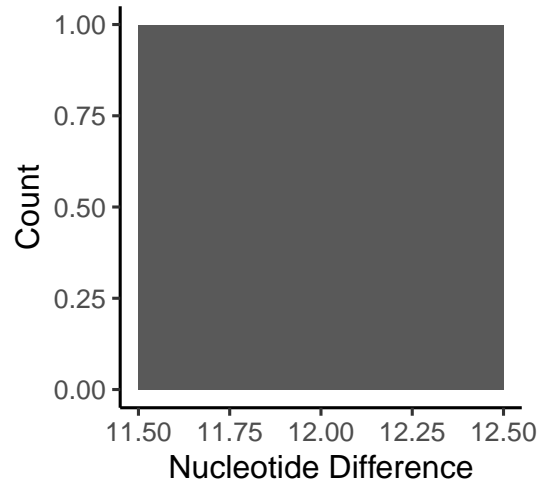
IGHV4-61*01

1643 sequences assigned
234 (14.2%) exact matches, in which:
180 unique CDR3
6 unique J



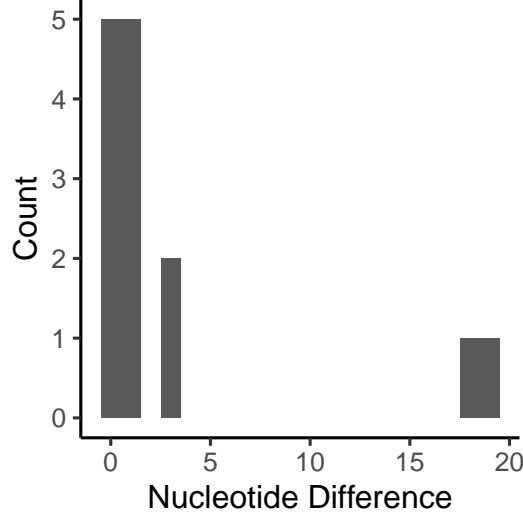
IGHV1/OR15-3*02

1 sequences assigned
No exact matches.



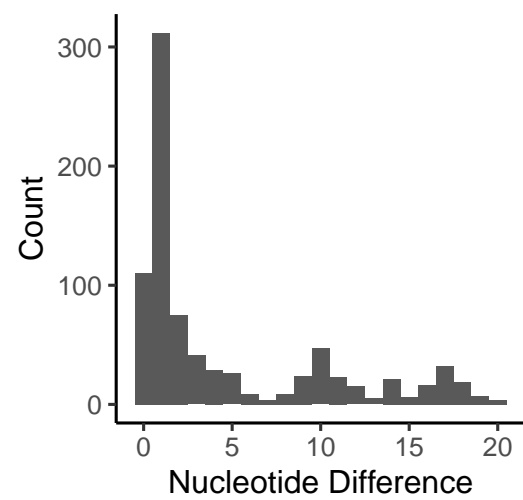
IGHV5-51*04

14 sequences assigned
5 (35.7%) exact matches, in which:
5 unique CDR3
2 unique J



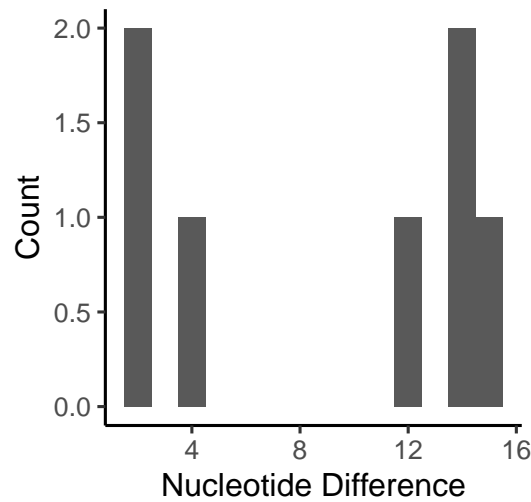
IGHV6-1*01_02

914 sequences assigned
110 (12%) exact matches, in which:
75 unique CDR3
5 unique J



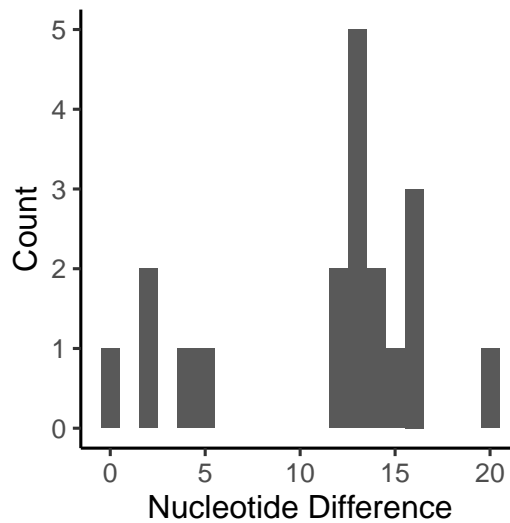
IGHV4/OR15-8*01

12 sequences assigned
No exact matches.



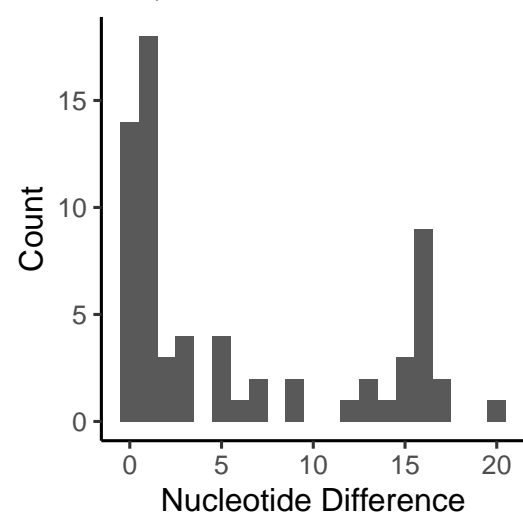
IGHV5-51*06

20 sequences assigned
1 (5%) exact matches, in which:
1 unique CDR3
1 unique J



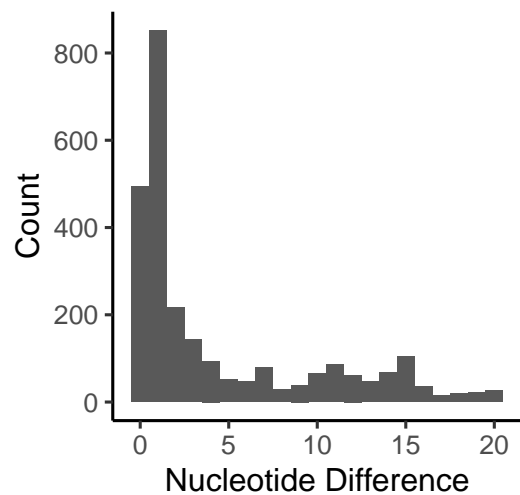
IGHV6-1*01_02_A315G

67 sequences assigned
14 (20.9%) exact matches, in which:
14 unique CDR3
4 unique J



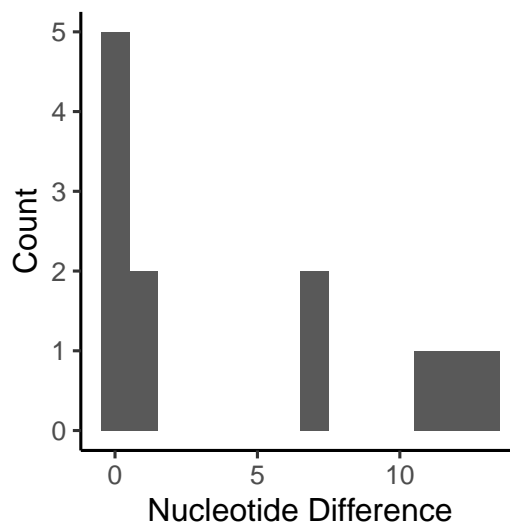
IGHV5-10-1*01_03

2742 sequences assigned
493 (18%) exact matches, in which:
286 unique CDR3
7 unique J



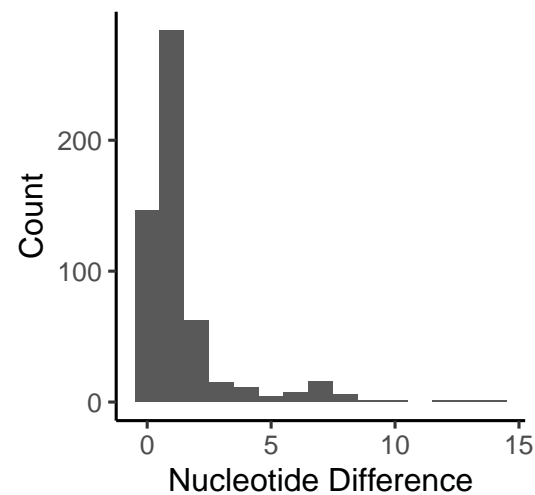
IGHV5-51*07

13 sequences assigned
5 (38.5%) exact matches, in which:
5 unique CDR3
3 unique J



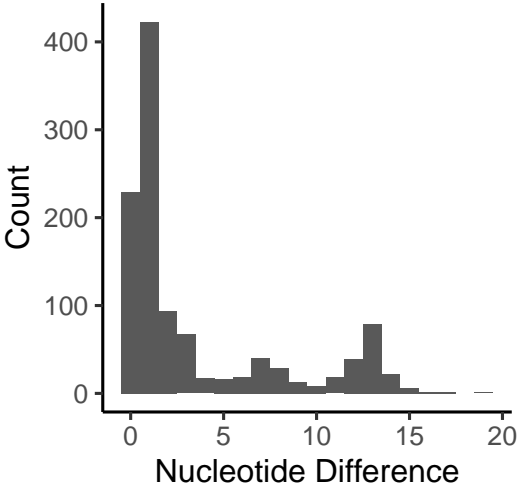
IGHV7-4-1*01

556 sequences assigned
146 (26.3%) exact matches, in which:
109 unique CDR3
5 unique J



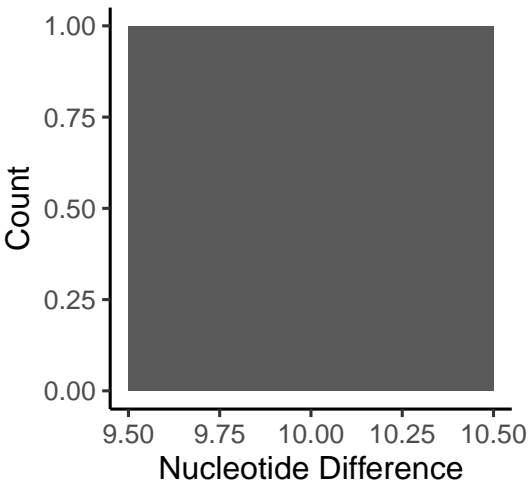
IGHV7-4-1*02

1180 sequences assigned
229 (19.4%) exact matches, in which:
145 unique CDR3
6 unique J

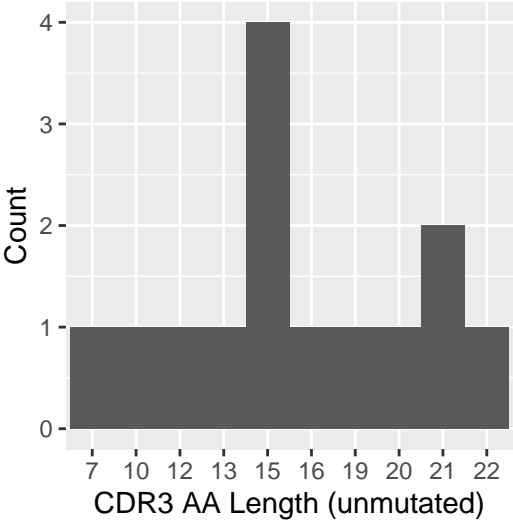


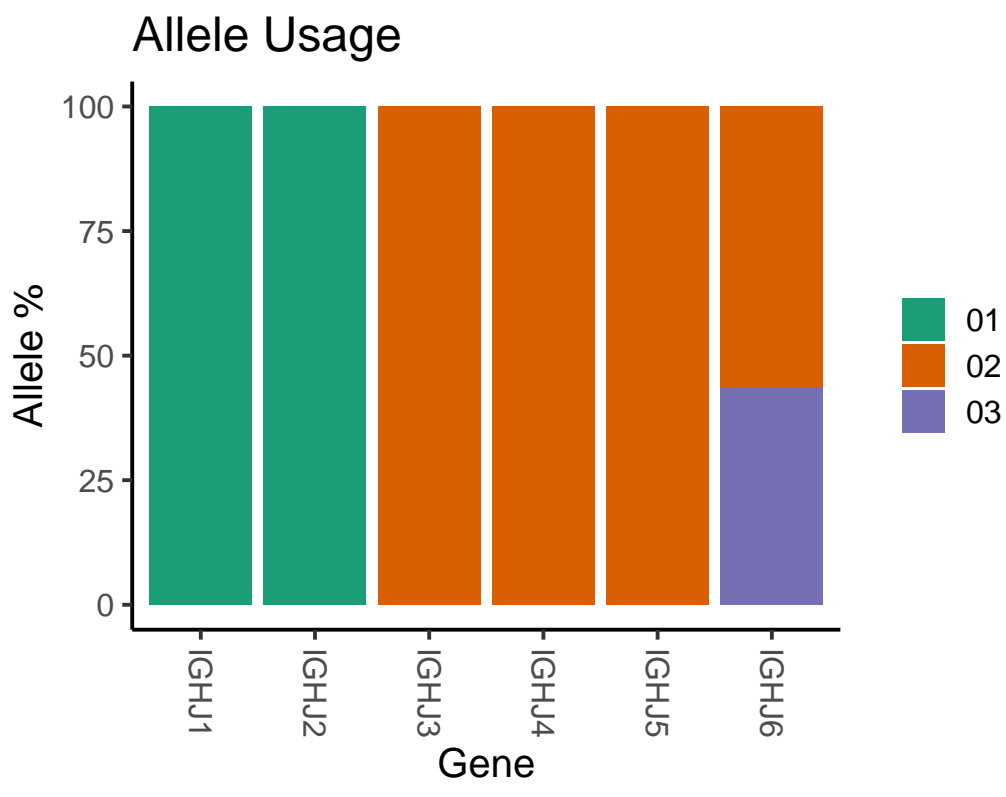
IGHV7-81*01

1 sequences assigned
No exact matches.



IGHV6-1*01_02_A315G





Sequence Count by IGHJ6 allele usage

