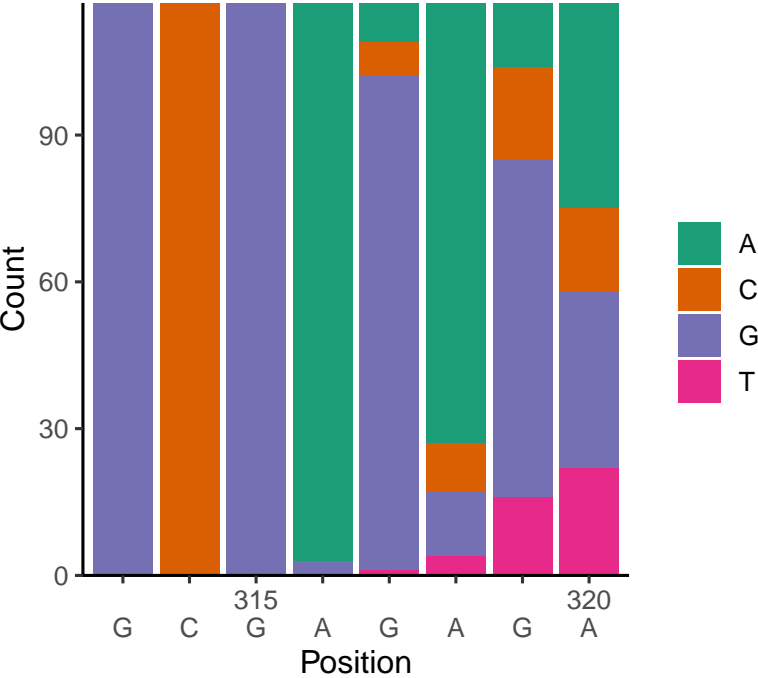


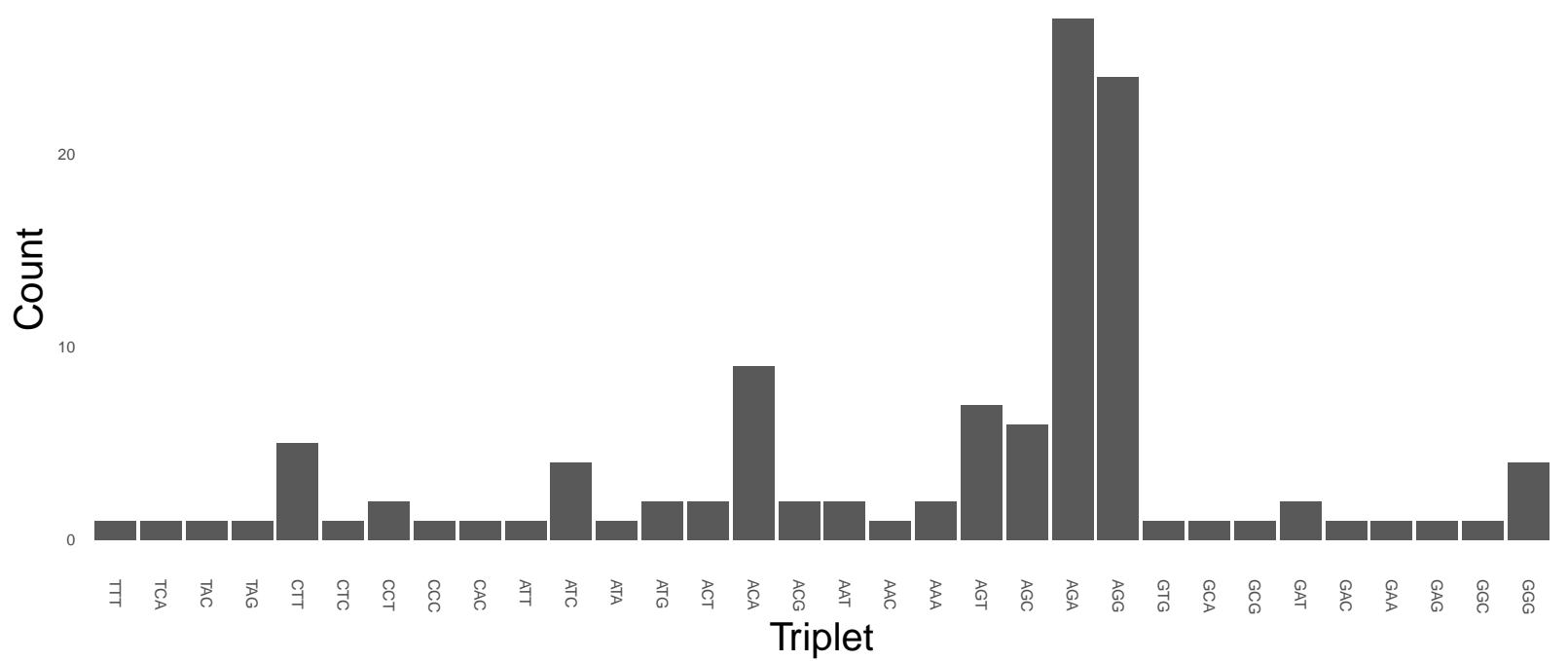
Gene IGHV6-1*01_02_A315G



Gene IGHV6-1*01_02_A315G

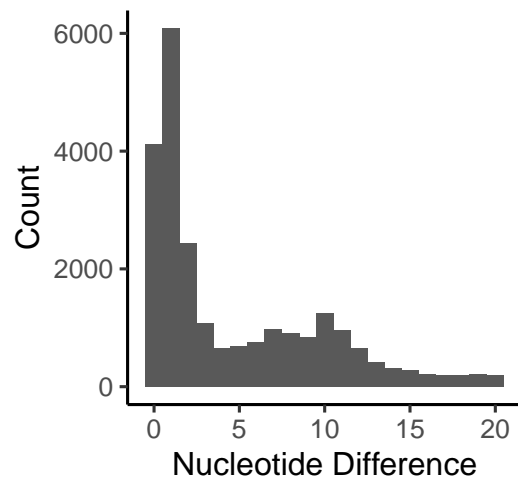


IGHV6-1*01_02_A315G- Final 3 nucleotides as a triplet



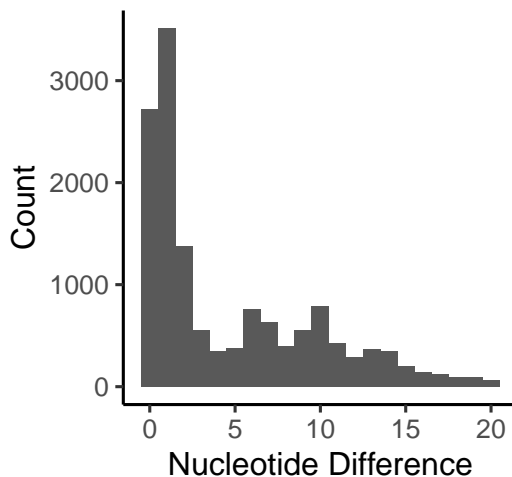
IGHV1-2*02

24115 sequences assigned
4116 (17.1%) exact matches, in which:
3165 unique CDR3
6 unique J



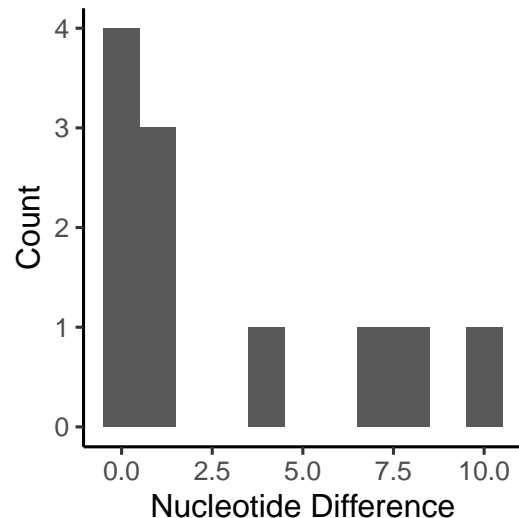
IGHV1-18*01

14586 sequences assigned
2716 (18.6%) exact matches, in which:
2202 unique CDR3
6 unique J



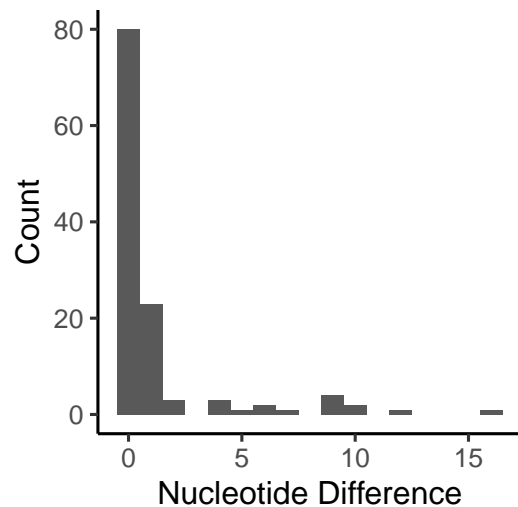
IGHV1-45*03

11 sequences assigned
4 (36.4%) exact matches, in which:
4 unique CDR3
2 unique J



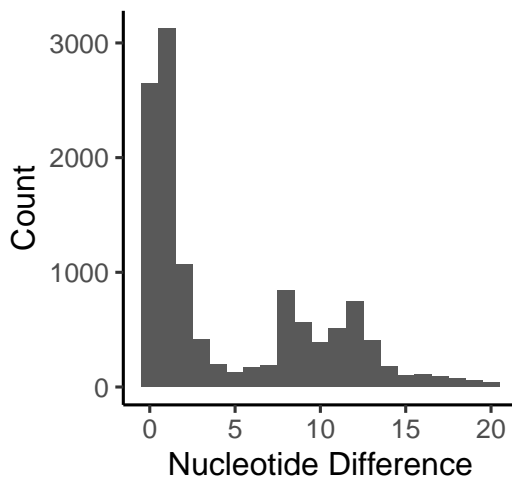
IGHV1-3*02

125 sequences assigned
80 (64%) exact matches, in which:
76 unique CDR3
6 unique J



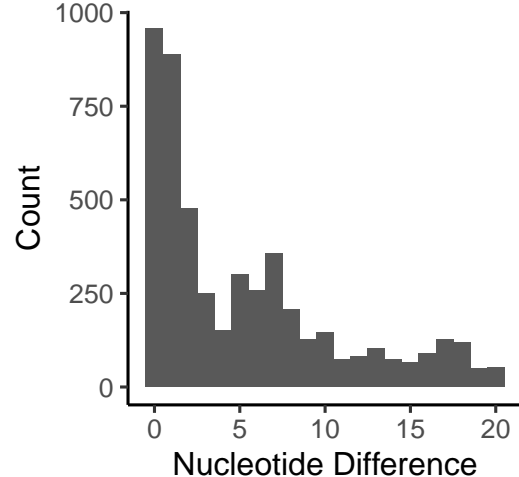
IGHV1-18*04

12759 sequences assigned
2648 (20.8%) exact matches, in which:
2136 unique CDR3
6 unique J



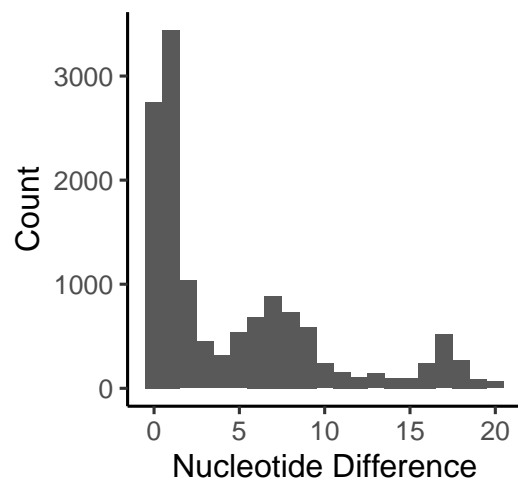
IGHV1-46*01

5230 sequences assigned
957 (18.3%) exact matches, in which:
850 unique CDR3
6 unique J



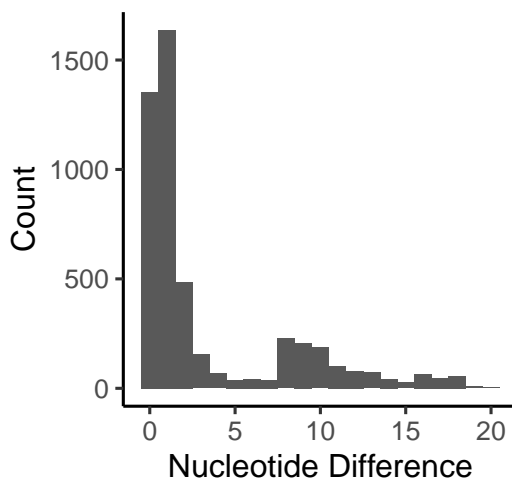
IGHV1-8*01

13889 sequences assigned
2751 (19.8%) exact matches, in which:
2226 unique CDR3
6 unique J



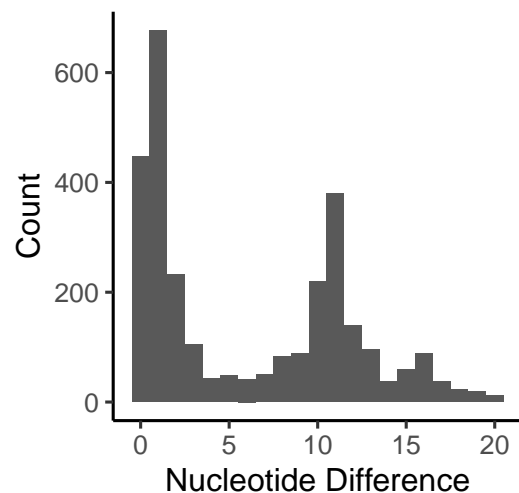
IGHV1-24*01

4973 sequences assigned
1353 (27.2%) exact matches, in which:
1108 unique CDR3
6 unique J



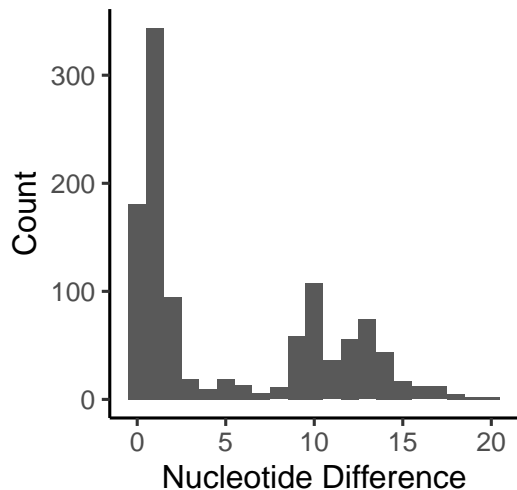
IGHV1-46*03

2980 sequences assigned
447 (15%) exact matches, in which:
320 unique CDR3
6 unique J



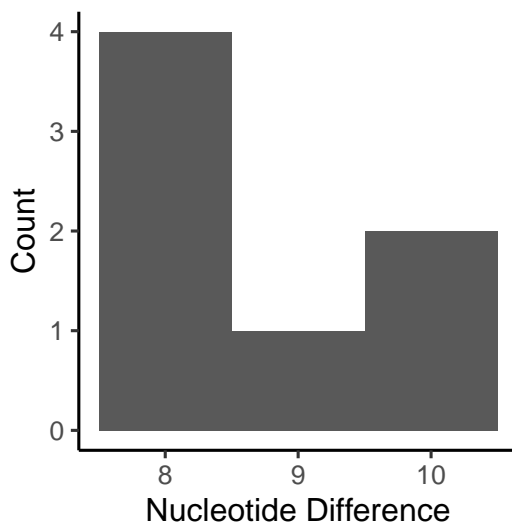
IGHV1–58*02

1167 sequences assigned
181 (15.5%) exact matches, in which:
124 unique CDR3
6 unique J



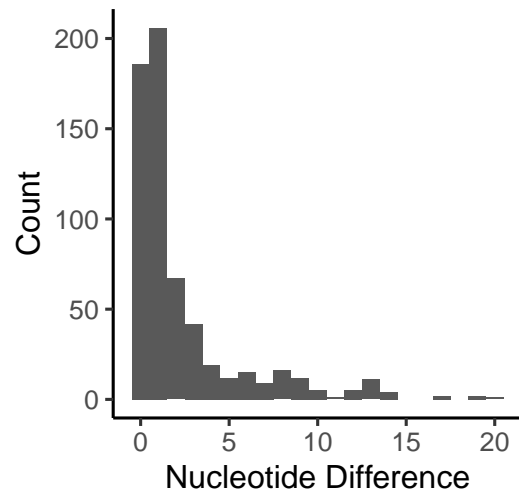
IGHV1–NL1*01

7 sequences assigned
No exact matches.



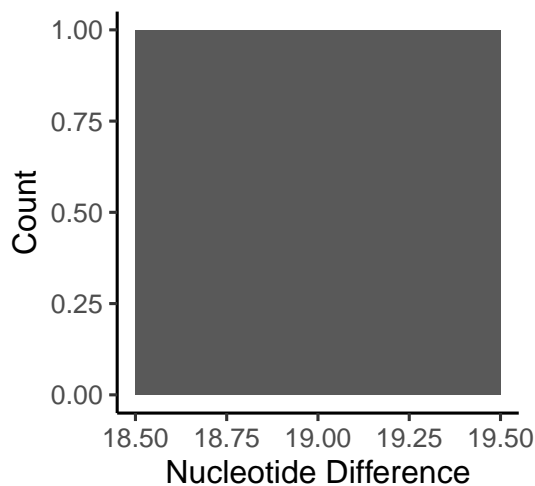
IGHV2–26*01

625 sequences assigned
186 (29.8%) exact matches, in which:
141 unique CDR3
6 unique J



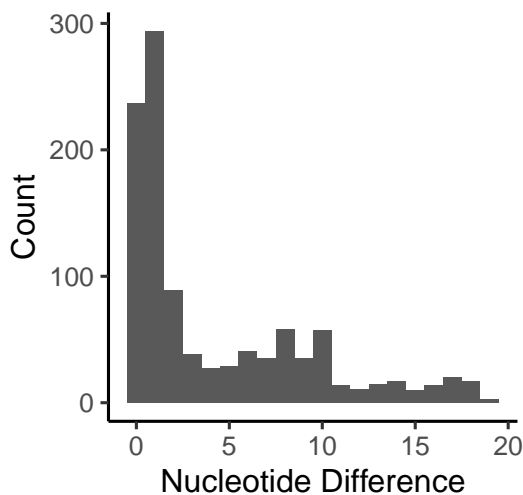
IGHV1–69–2*01

1 sequences assigned
No exact matches.



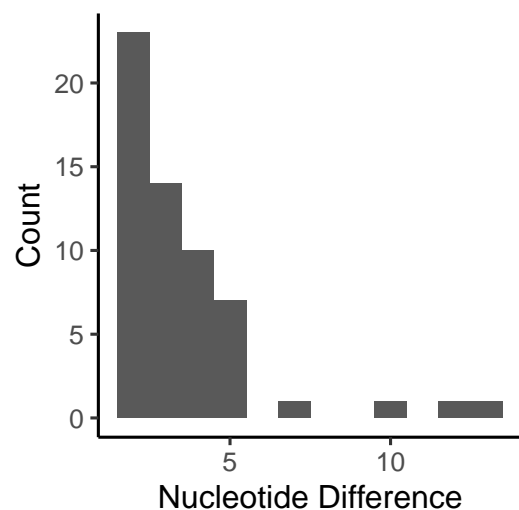
IGHV2–5*01

1097 sequences assigned
237 (21.6%) exact matches, in which:
182 unique CDR3
6 unique J



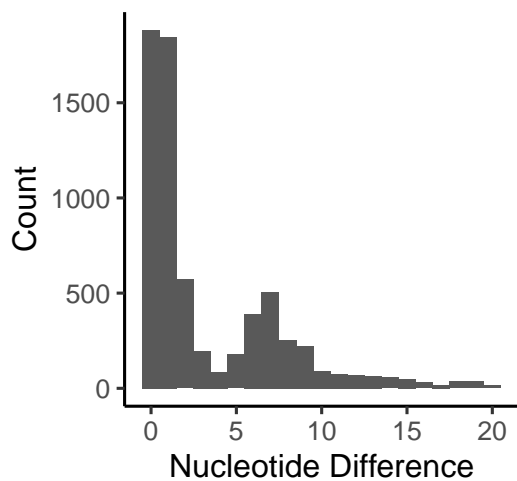
IGHV2–70*12

58 sequences assigned
No exact matches.



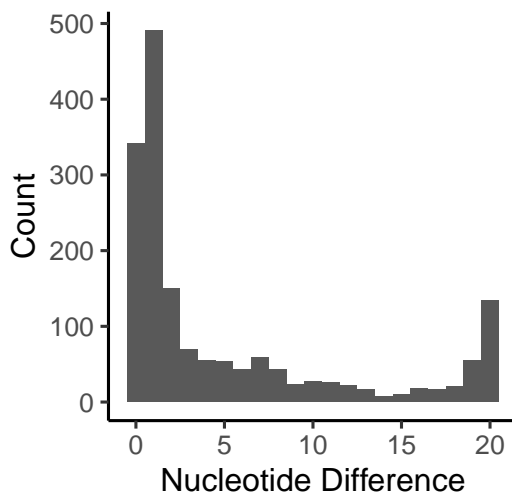
IGHV1–69*04_09

6750 sequences assigned
1882 (27.9%) exact matches, in which:
1597 unique CDR3
6 unique J



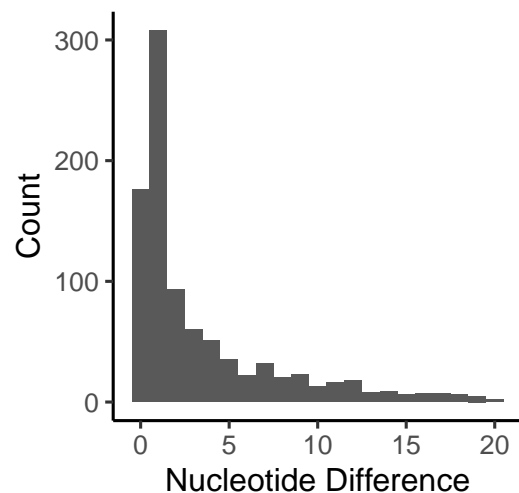
IGHV2–5*02

1883 sequences assigned
342 (18.2%) exact matches, in which:
246 unique CDR3
6 unique J



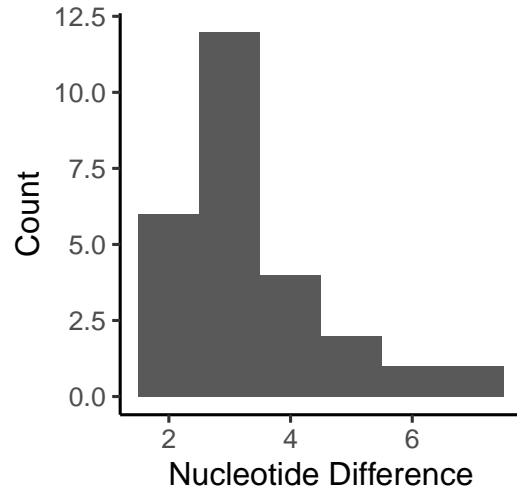
IGHV2–70*11_15

1021 sequences assigned
176 (17.2%) exact matches, in which:
118 unique CDR3
6 unique J



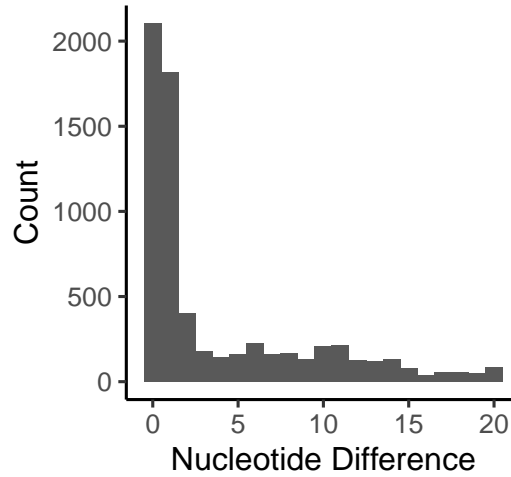
IGHV2-70D*14

26 sequences assigned
No exact matches.



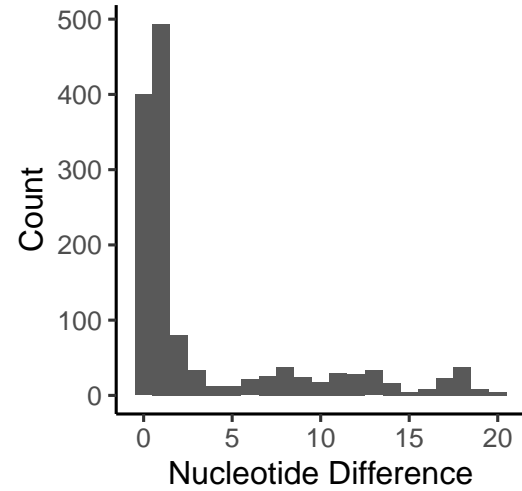
IGHV3-9*01

8586 sequences assigned
2104 (24.5%) exact matches, in which:
1183 unique CDR3
6 unique J



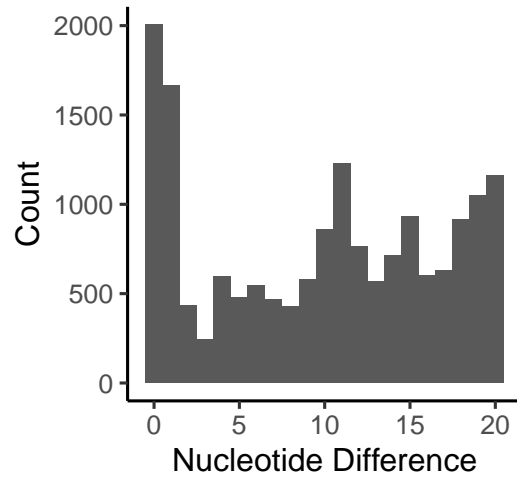
IGHV3-13*01

1377 sequences assigned
400 (29%) exact matches, in which:
211 unique CDR3
5 unique J



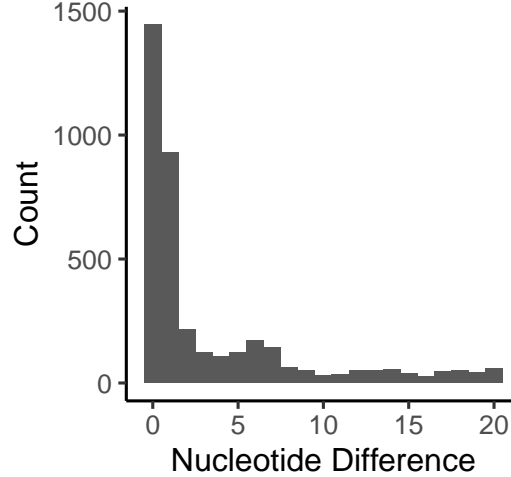
IGHV3-7*01

21058 sequences assigned
2005 (9.5%) exact matches, in which:
1373 unique CDR3
6 unique J



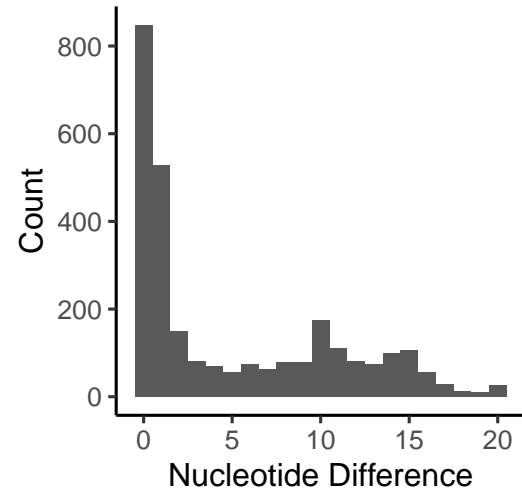
IGHV3-11*01

4493 sequences assigned
1445 (32.2%) exact matches, in which:
958 unique CDR3
6 unique J



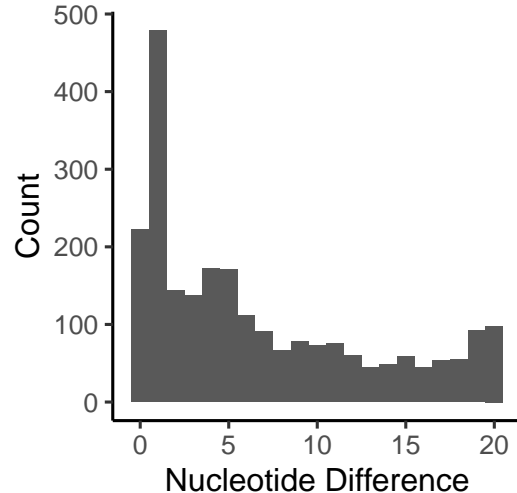
IGHV3-15*01_02

3527 sequences assigned
848 (24%) exact matches, in which:
516 unique CDR3
6 unique J



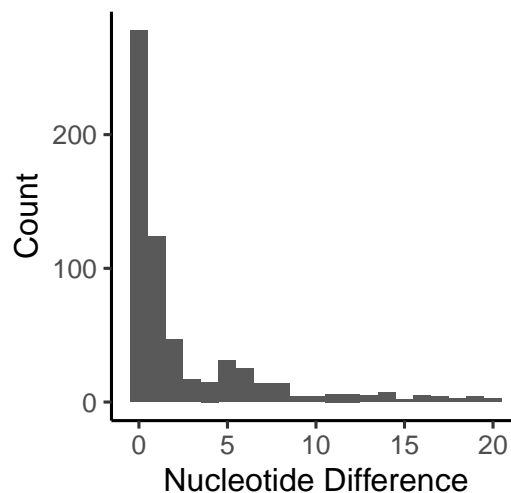
IGHV3-7*03

3119 sequences assigned
222 (7.1%) exact matches, in which:
163 unique CDR3
6 unique J



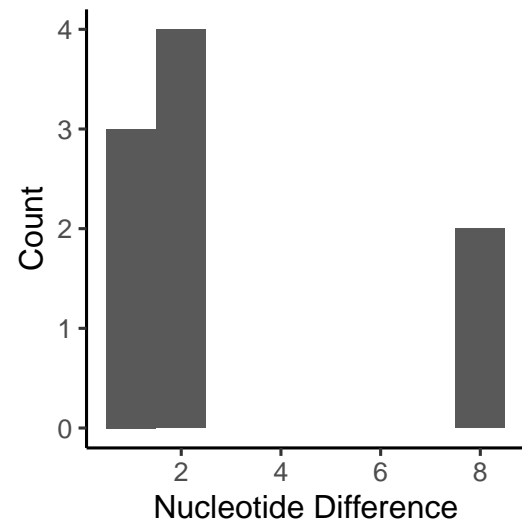
IGHV3-11*04

640 sequences assigned
278 (43.4%) exact matches, in which:
258 unique CDR3
6 unique J



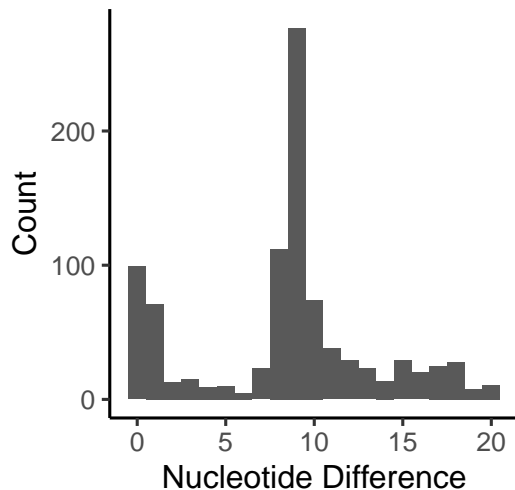
IGHV3-19*01

9 sequences assigned
No exact matches.



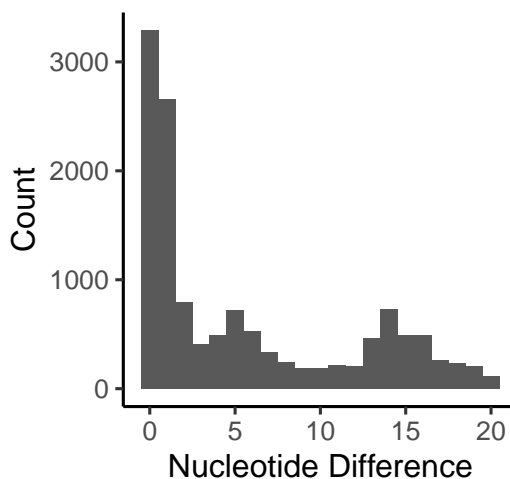
IGHV3-20*01_02

960 sequences assigned
99 (10.3%) exact matches, in which:
60 unique CDR3
5 unique J



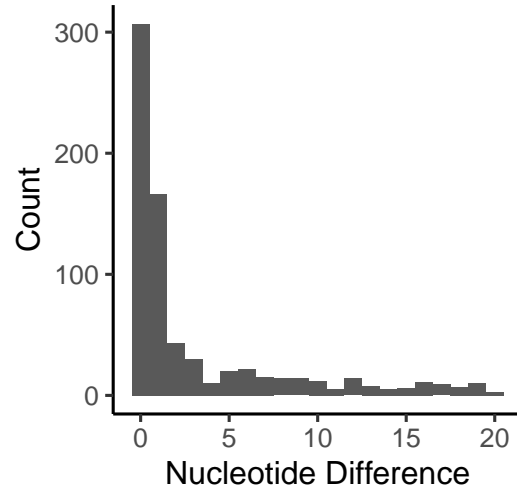
IGHV3-21*01_02

13823 sequences assigned
3289 (23.8%) exact matches, in which:
2062 unique CDR3
6 unique J



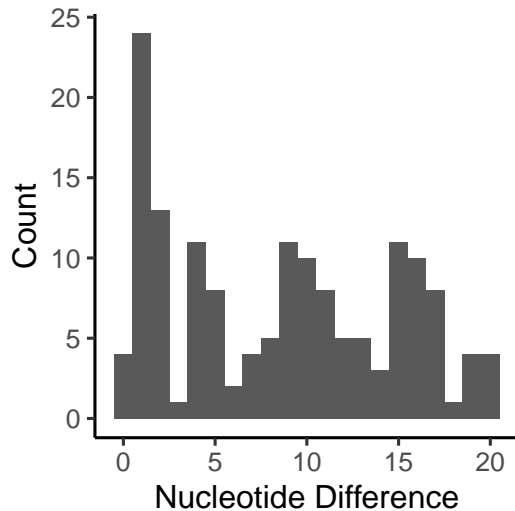
IGHV3-30*03

796 sequences assigned
307 (38.6%) exact matches, in which:
283 unique CDR3
6 unique J



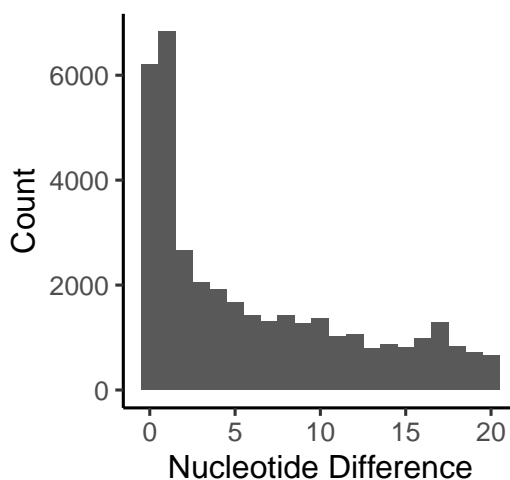
IGHV3-20*03_04

172 sequences assigned
4 (2.3%) exact matches, in which:
4 unique CDR3
2 unique J



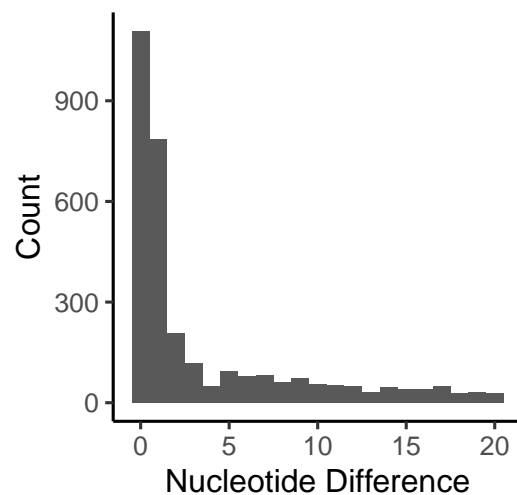
IGHV3-23*01_04

41896 sequences assigned
6207 (14.8%) exact matches, in which:
3447 unique CDR3
6 unique J



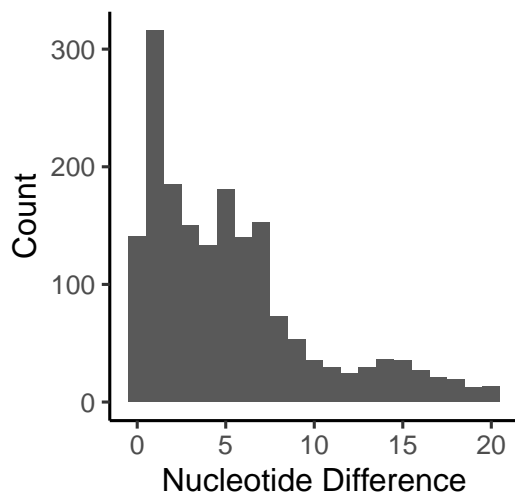
IGHV3-30*18

3452 sequences assigned
1108 (32.1%) exact matches, in which:
671 unique CDR3
6 unique J



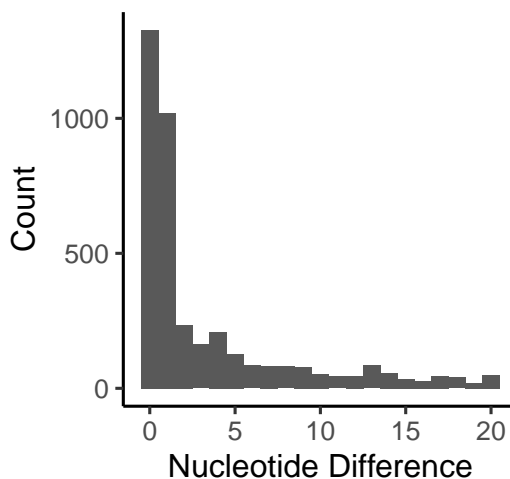
IGHV3-21*04

1894 sequences assigned
141 (7.4%) exact matches, in which:
133 unique CDR3
6 unique J



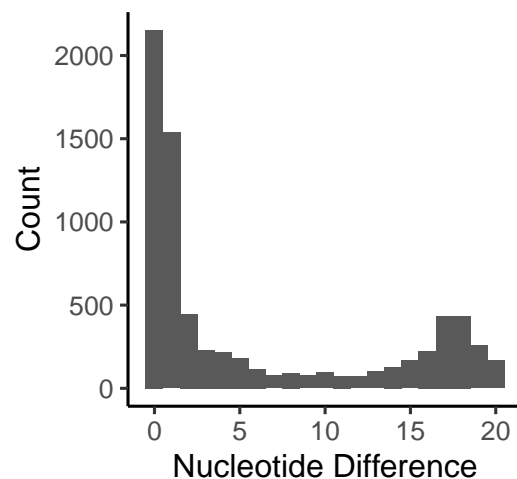
IGHV3-30-3*01

4035 sequences assigned
1327 (32.9%) exact matches, in which:
842 unique CDR3
6 unique J



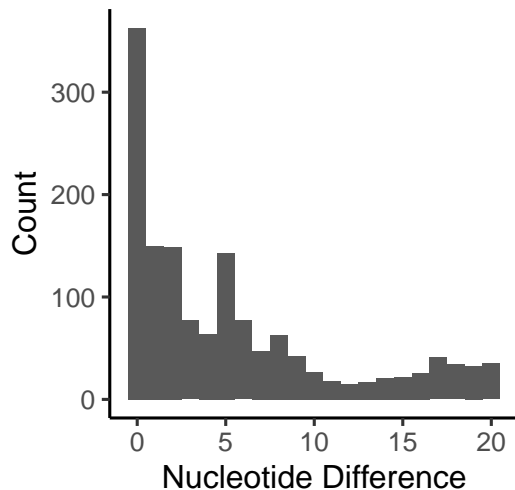
IGHV3-33*01

7989 sequences assigned
2153 (26.9%) exact matches, in which:
1443 unique CDR3
6 unique J



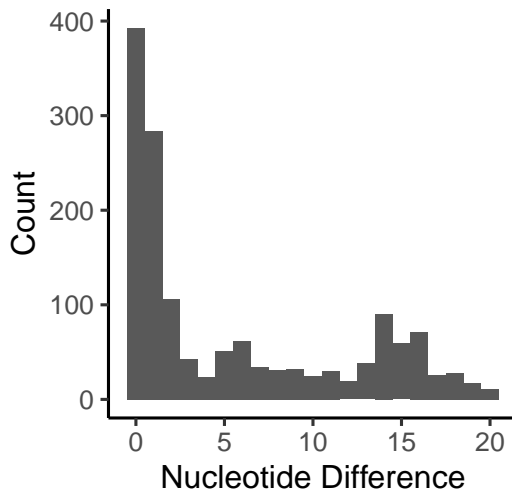
IGHV3–33*08

1616 sequences assigned
363 (22.5%) exact matches, in which:
281 unique CDR3
6 unique J



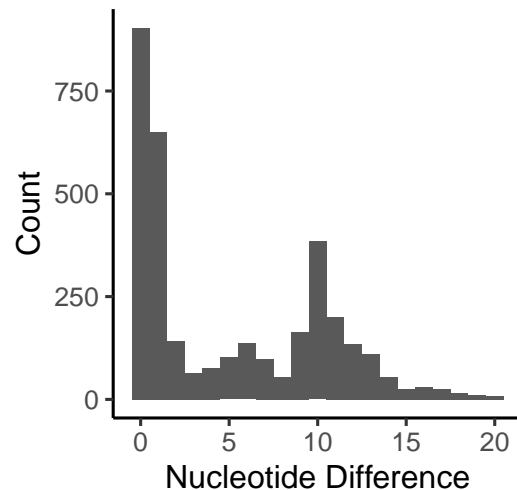
IGHV3–43*02

2063 sequences assigned
393 (19%) exact matches, in which:
242 unique CDR3
6 unique J



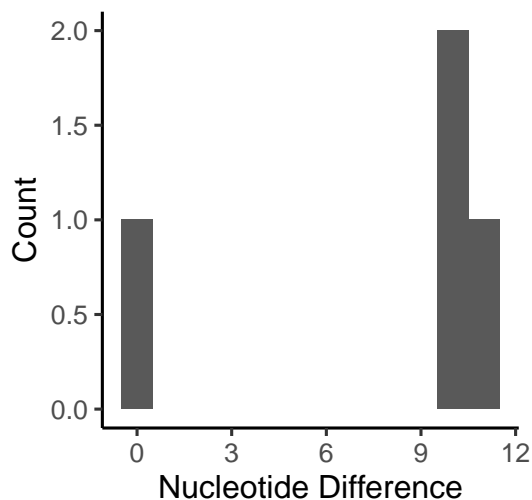
IGHV3–48*03

3645 sequences assigned
904 (24.8%) exact matches, in which:
542 unique CDR3
6 unique J



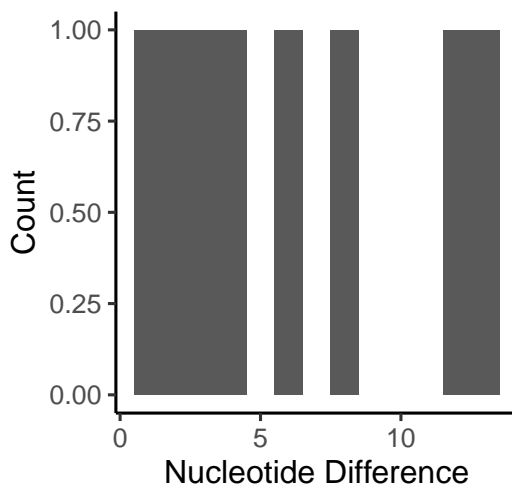
IGHV3–35*01

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



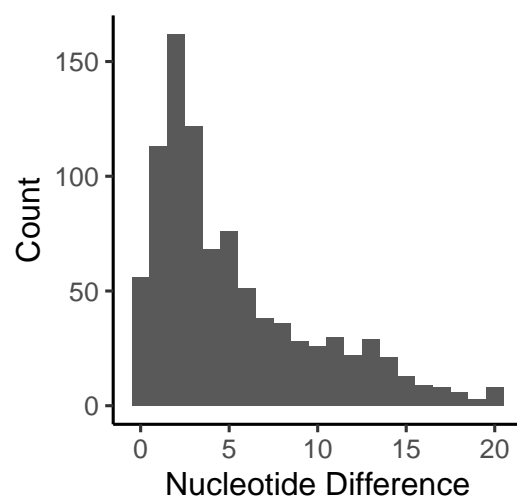
IGHV3–47*02

8 sequences assigned
No exact matches.



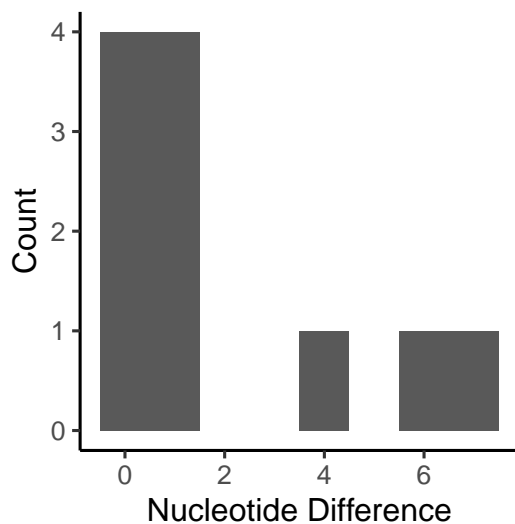
IGHV3–48*04

952 sequences assigned
56 (5.9%) exact matches, in which:
53 unique CDR3
6 unique J



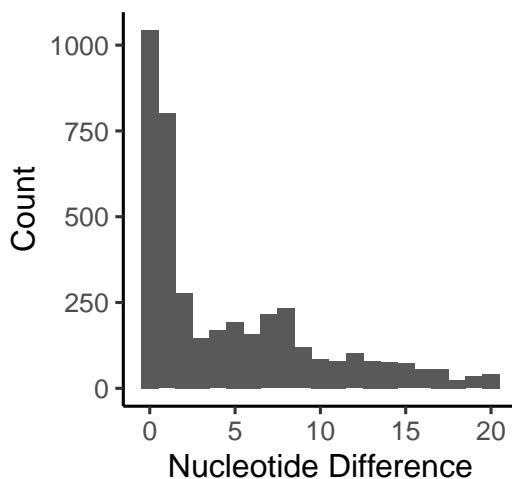
IGHV3–38*02

11 sequences assigned
4 (36.4%) exact matches, in which:
3 unique CDR3
3 unique J



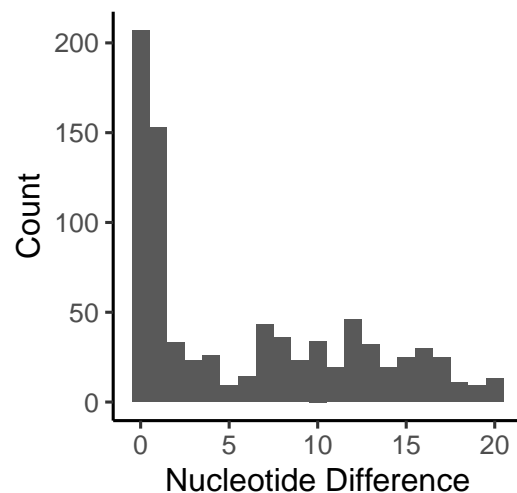
IGHV3–48*01

4155 sequences assigned
1044 (25.1%) exact matches, in which:
680 unique CDR3
6 unique J



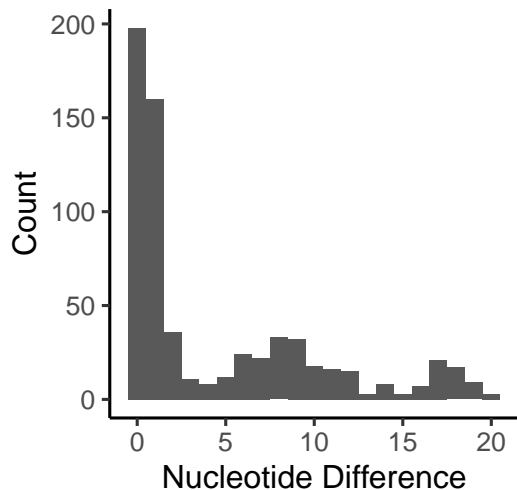
IGHV3–49*04

897 sequences assigned
207 (23.1%) exact matches, in which:
132 unique CDR3
6 unique J



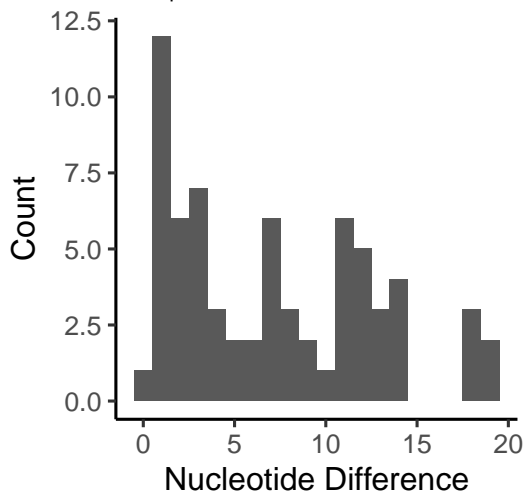
IGHV3-49*03_05

674 sequences assigned
198 (29.4%) exact matches, in which:
132 unique CDR3
5 unique J



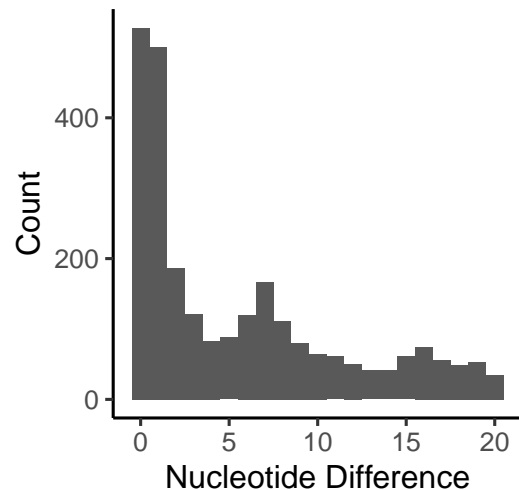
IGHV3-53*05

72 sequences assigned
1 (1.4%) exact matches, in which:
1 unique CDR3
1 unique J



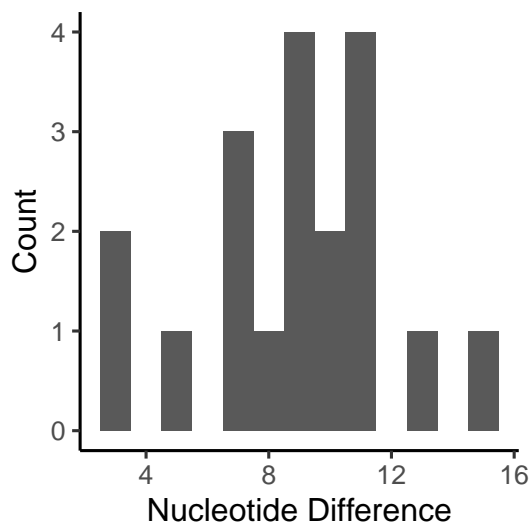
IGHV3-66*01

3434 sequences assigned
528 (15.4%) exact matches, in which:
351 unique CDR3
6 unique J



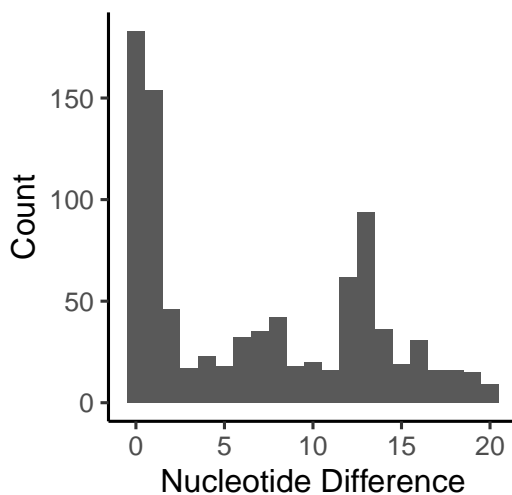
IGHV3-52*01_03

19 sequences assigned
No exact matches.



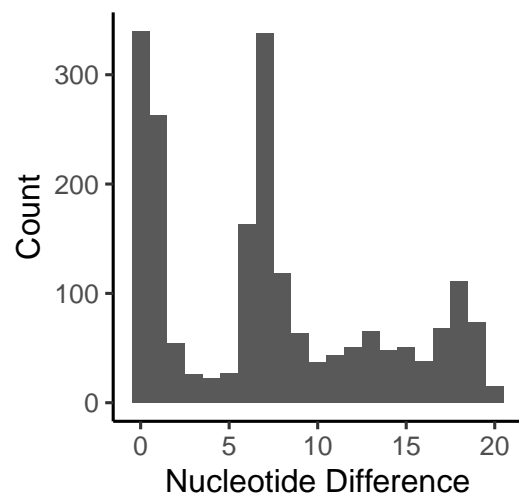
IGHV3-53*01_02

964 sequences assigned
183 (19%) exact matches, in which:
117 unique CDR3
6 unique J



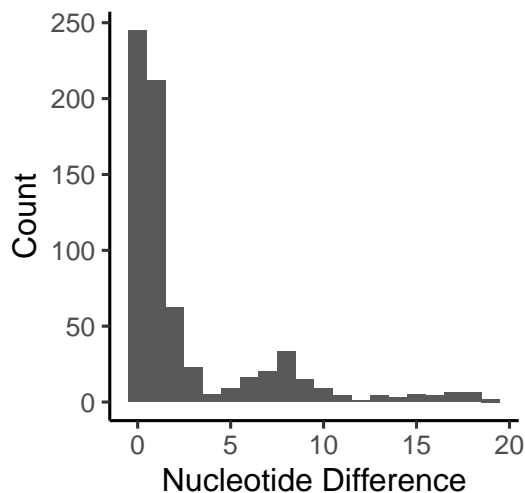
IGHV3-66*02

2254 sequences assigned
340 (15.1%) exact matches, in which:
234 unique CDR3
6 unique J



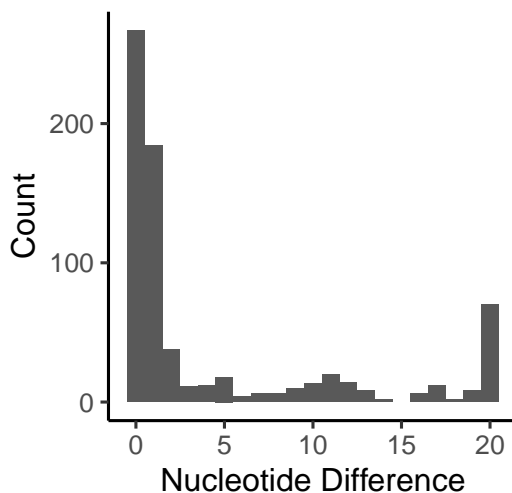
IGHV3-53*04

688 sequences assigned
245 (35.6%) exact matches, in which:
164 unique CDR3
6 unique J



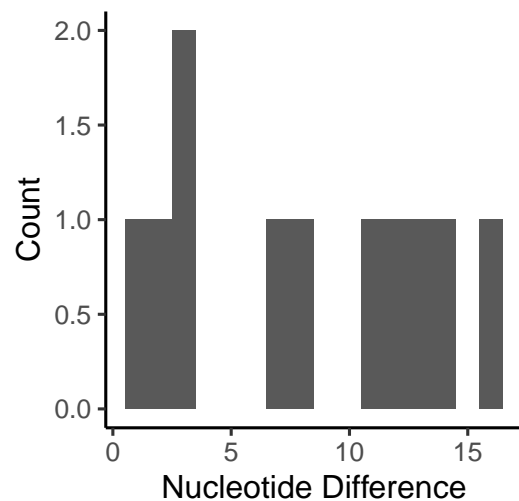
IGHV3-64*01

965 sequences assigned
267 (27.7%) exact matches, in which:
179 unique CDR3
6 unique J



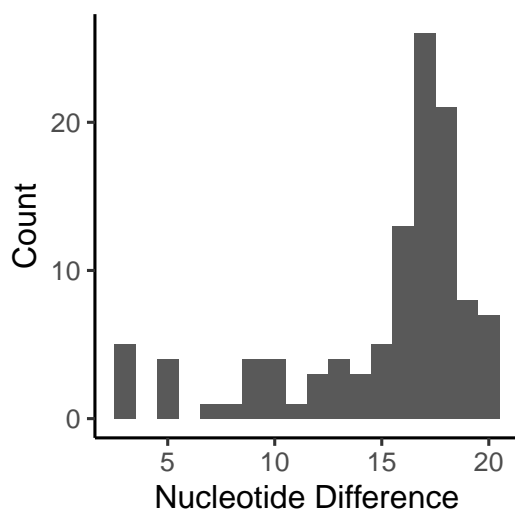
IGHV3-66*03

13 sequences assigned
No exact matches.



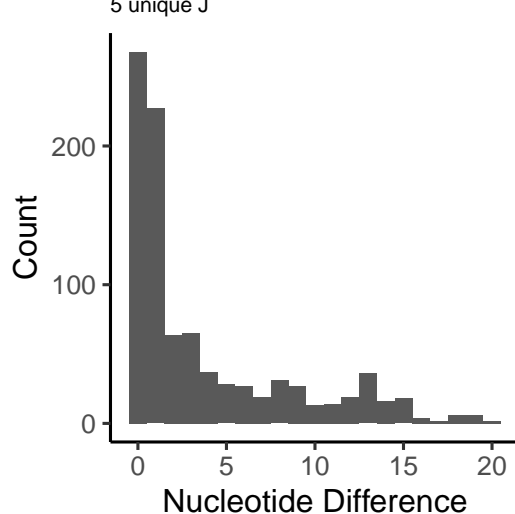
IGHV3-69-1*01

127 sequences assigned
No exact matches.



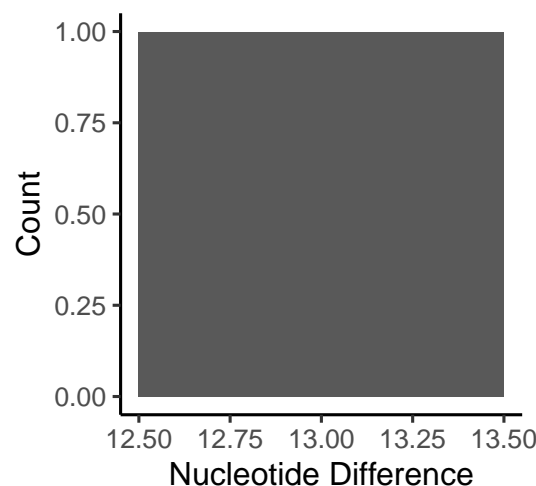
IGHV3-73*01_02

936 sequences assigned
268 (28.6%) exact matches, in which:
160 unique CDR3
5 unique J



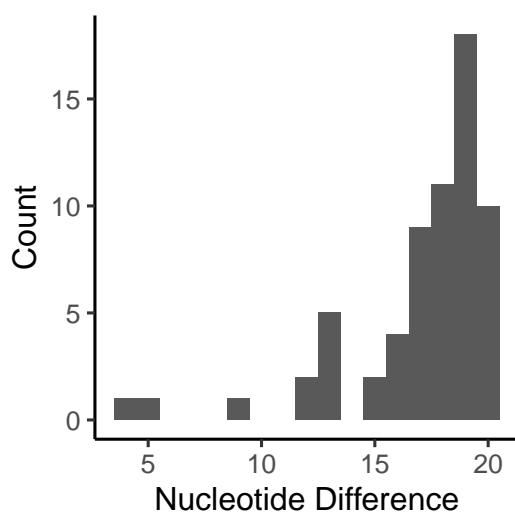
IGHV3-43D*03

1 sequences assigned
No exact matches.



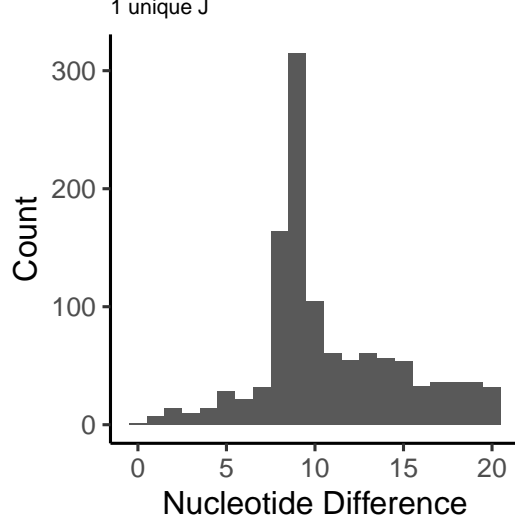
IGHV3-69-1*02

83 sequences assigned
No exact matches.



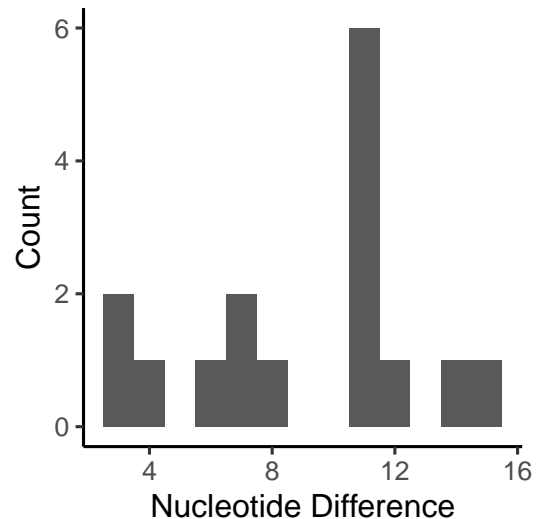
IGHV3-74*03

2349 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



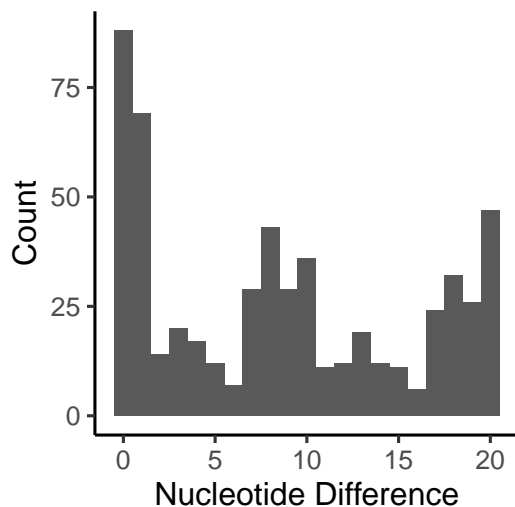
IGHV3-43D*04

16 sequences assigned
No exact matches.



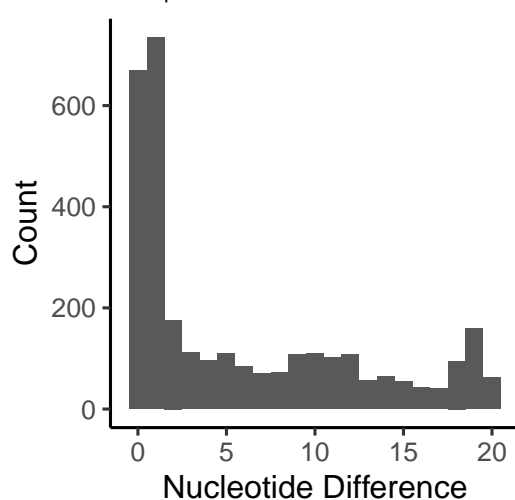
IGHV3-72*01

692 sequences assigned
88 (12.7%) exact matches, in which:
51 unique CDR3
6 unique J



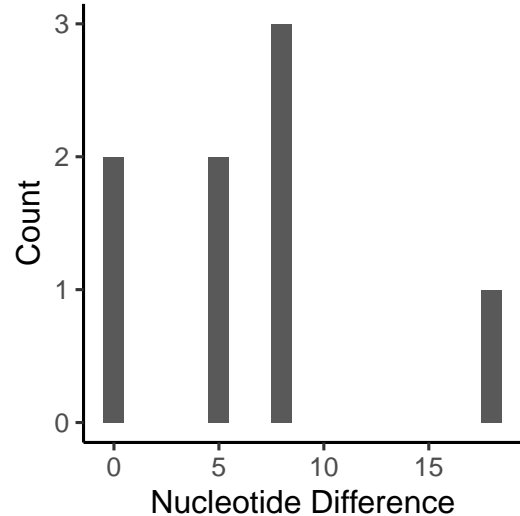
IGHV3-74*01_02

3236 sequences assigned
669 (20.7%) exact matches, in which:
367 unique CDR3
6 unique J



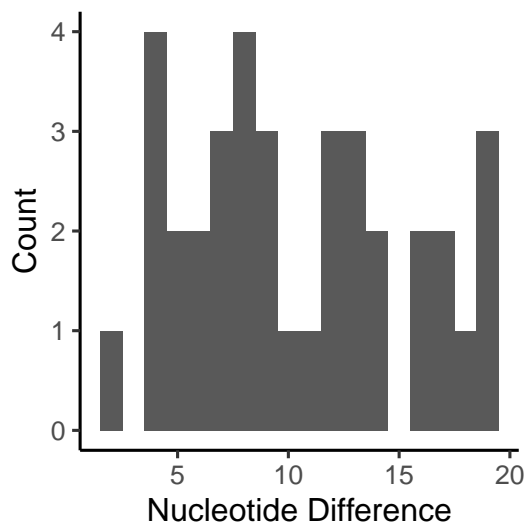
IGHV3-64D*06

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



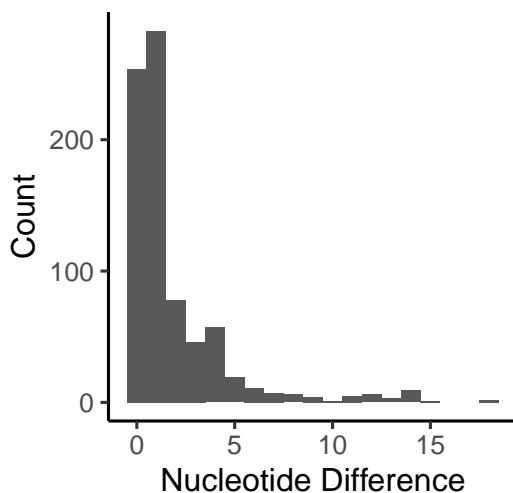
IGHV3–NL1*01

44 sequences assigned
No exact matches.



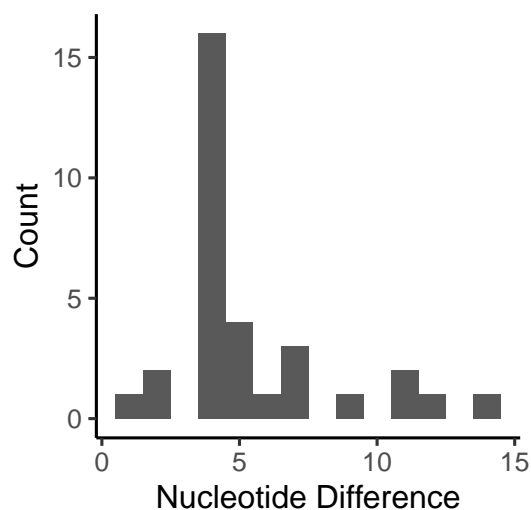
IGHV4–30–2*01

801 sequences assigned
254 (31.7%) exact matches, in which:
147 unique CDR3
6 unique J



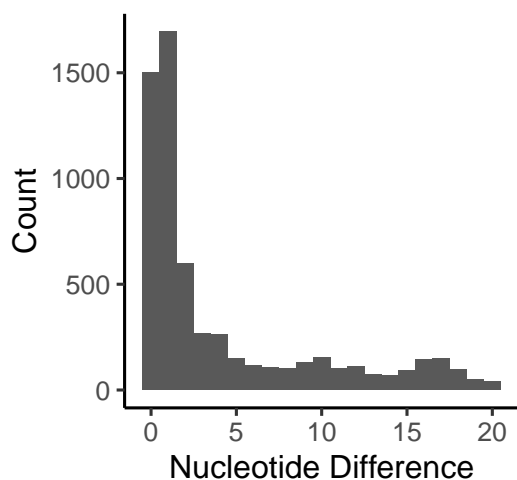
IGHV4–30–4*07

32 sequences assigned
No exact matches.



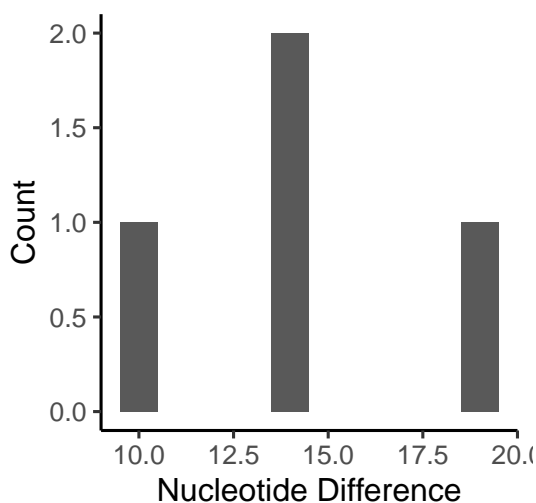
IGHV4–4*07

6618 sequences assigned
1501 (22.7%) exact matches, in which:
1211 unique CDR3
6 unique J



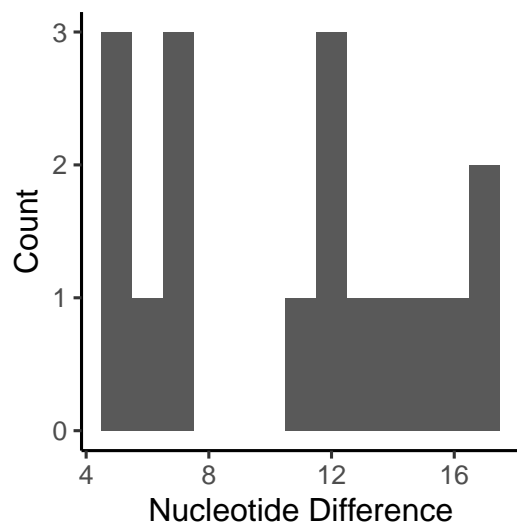
IGHV4–30–4*01

5 sequences assigned
No exact matches.



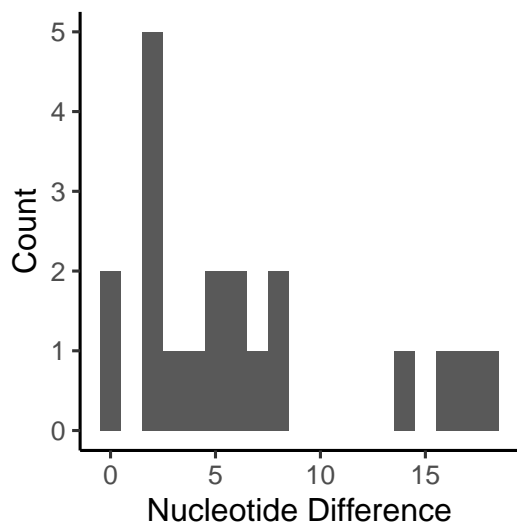
IGHV4–30–4*08

25 sequences assigned
No exact matches.



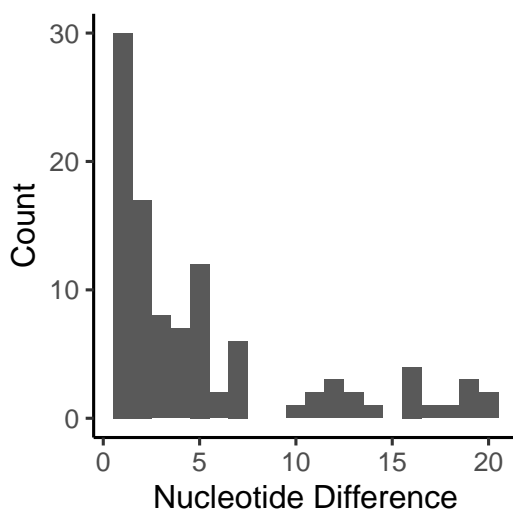
IGHV4–28*03

28 sequences assigned
2 (7.1%) exact matches, in which:
2 unique CDR3
2 unique J



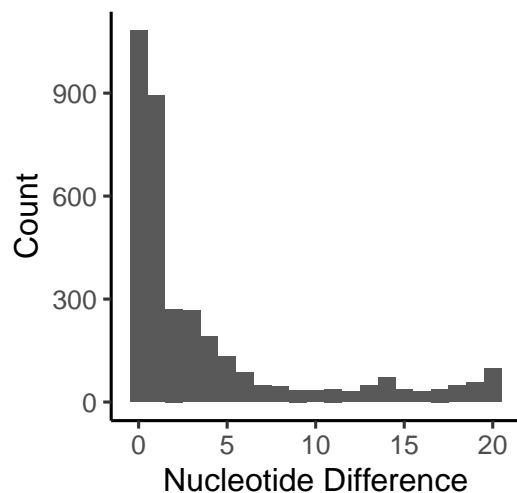
IGHV4–30–2*03

103 sequences assigned
No exact matches.



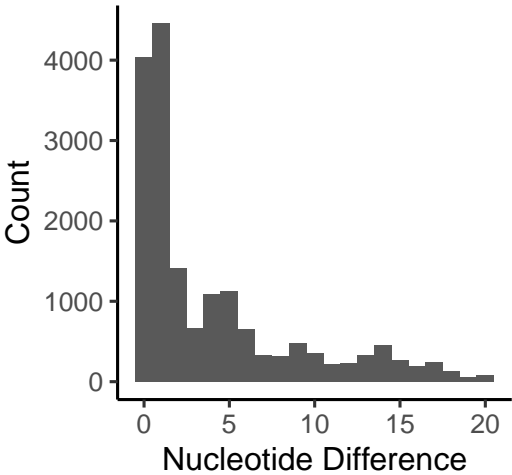
IGHV4–31*02

4007 sequences assigned
1083 (27%) exact matches, in which:
919 unique CDR3
6 unique J



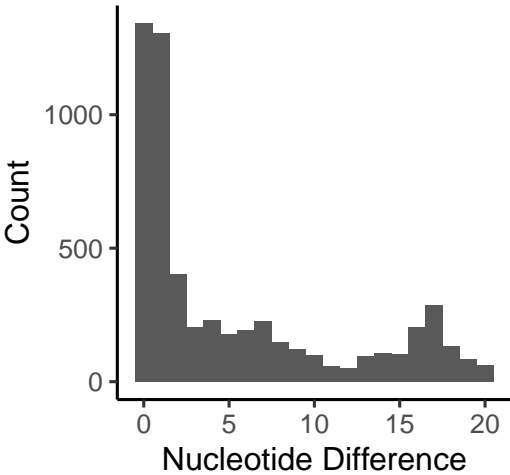
IGHV4-34*01_02

17595 sequences assigned
4040 (23%) exact matches, in which:
2694 unique CDR3
6 unique J



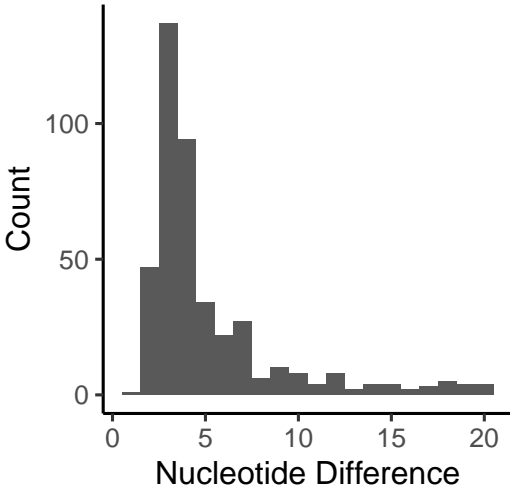
IGHV4-59*08

6401 sequences assigned
1342 (21%) exact matches, in which:
1072 unique CDR3
6 unique J



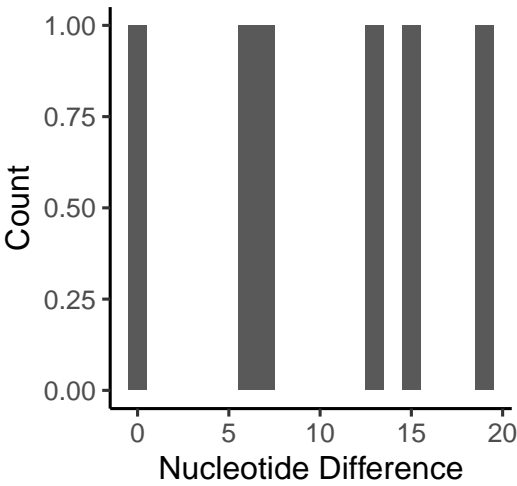
IGHV4-61*05

454 sequences assigned
No exact matches.



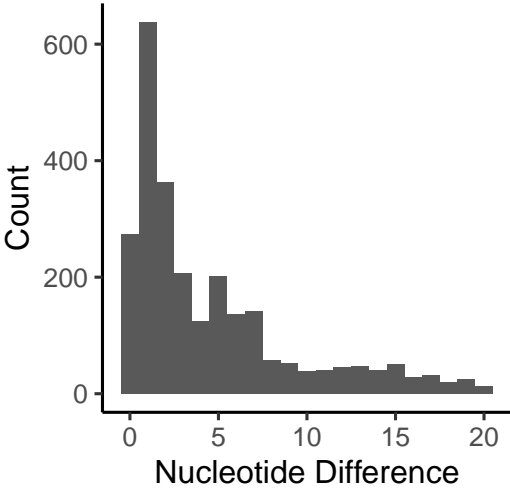
IGHV4-38-2*02

10 sequences assigned
1 (10%) exact matches, in which:
1 unique CDR3
1 unique J



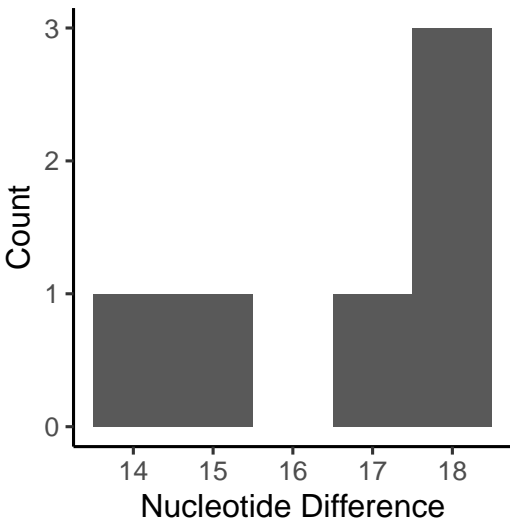
IGHV4-59*12

2954 sequences assigned
273 (9.2%) exact matches, in which:
257 unique CDR3
6 unique J



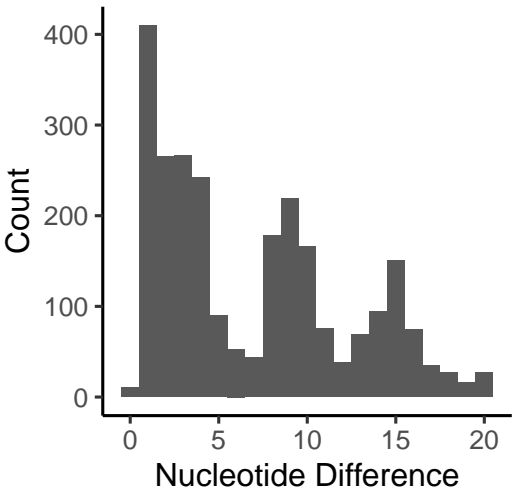
IGHV1/OR15-1*04

6 sequences assigned
No exact matches.



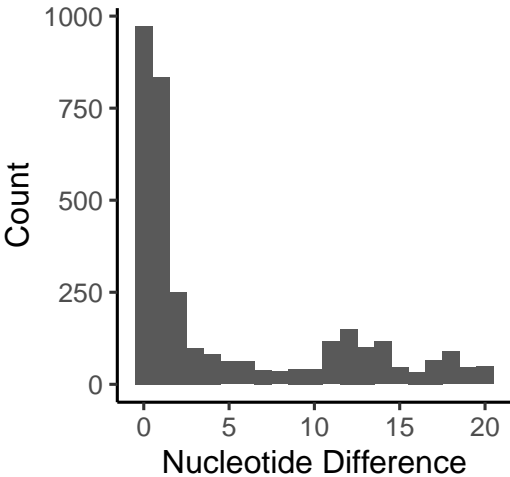
IGHV4-39*07

2844 sequences assigned
11 (0.4%) exact matches, in which:
11 unique CDR3
4 unique J



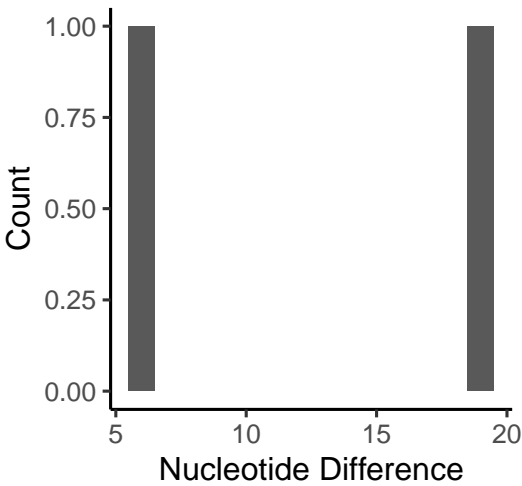
IGHV4-61*02

3827 sequences assigned
973 (25.4%) exact matches, in which:
842 unique CDR3
6 unique J



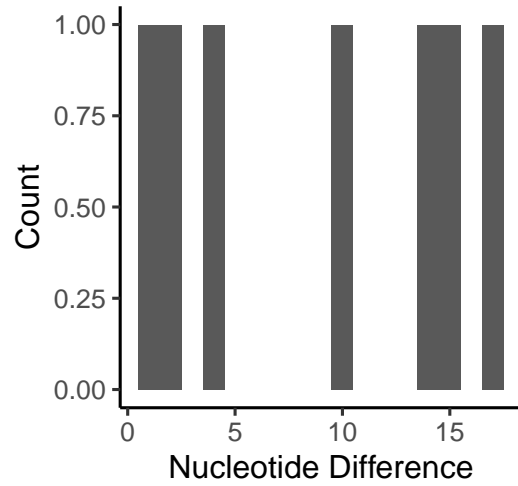
IGHV1/OR15-2*02_03

3 sequences assigned
No exact matches.



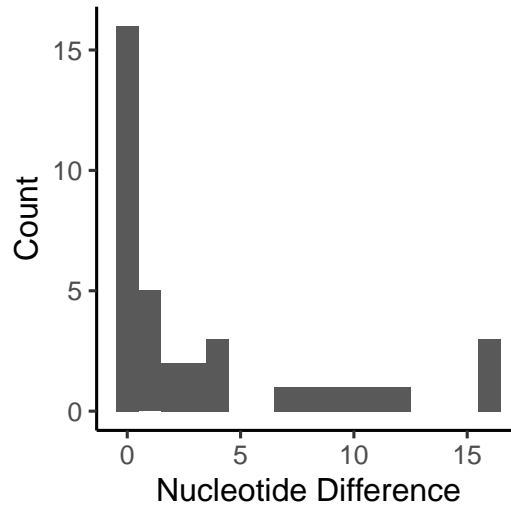
IGHV4/OR15-8*01

11 sequences assigned
No exact matches.



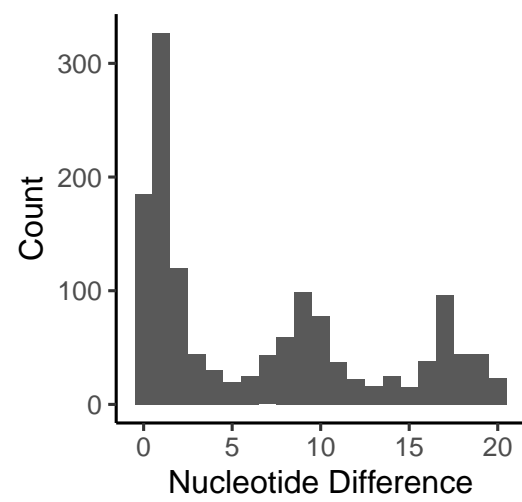
IGHV5-51*04

65 sequences assigned
16 (24.6%) exact matches, in which:
15 unique CDR3
3 unique J



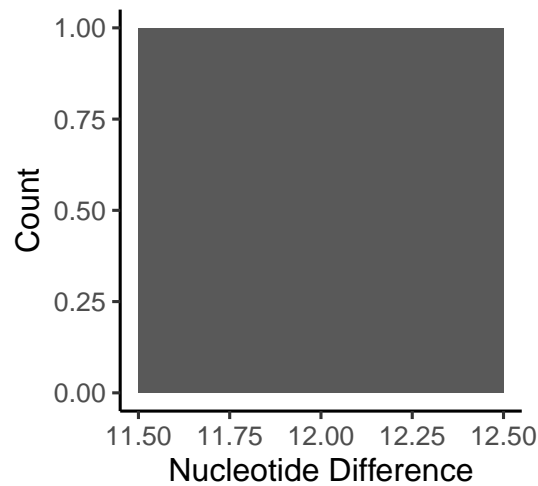
IGHV6-1*01_02

1459 sequences assigned
185 (12.7%) exact matches, in which:
144 unique CDR3
5 unique J



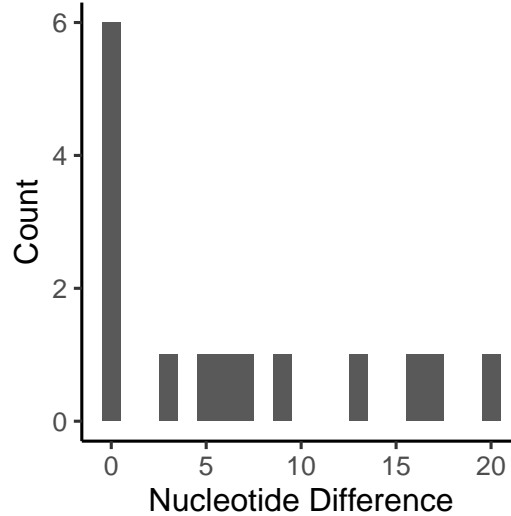
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



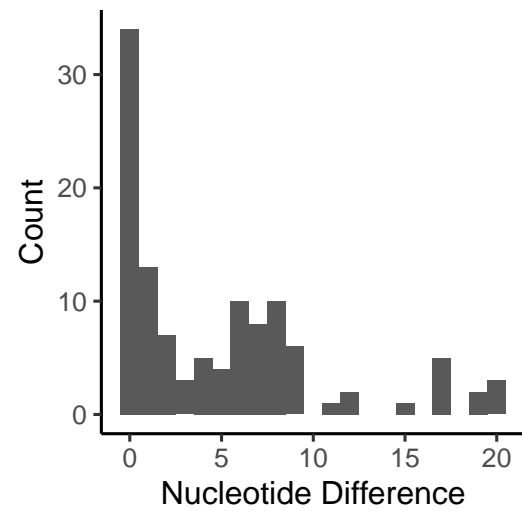
IGHV5-51*06

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



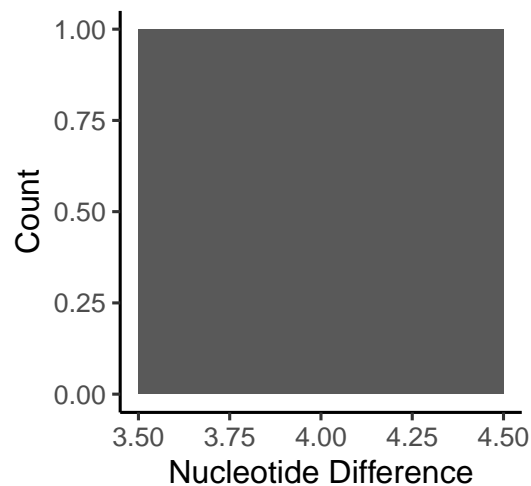
IGHV6-1*01_02_A315G

117 sequences assigned
34 (29.1%) exact matches, in which:
34 unique CDR3
5 unique J



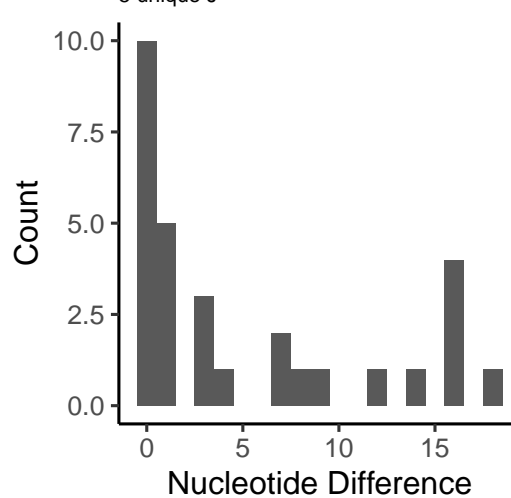
IGHV5-10-1*01_03

2 sequences assigned
No exact matches.



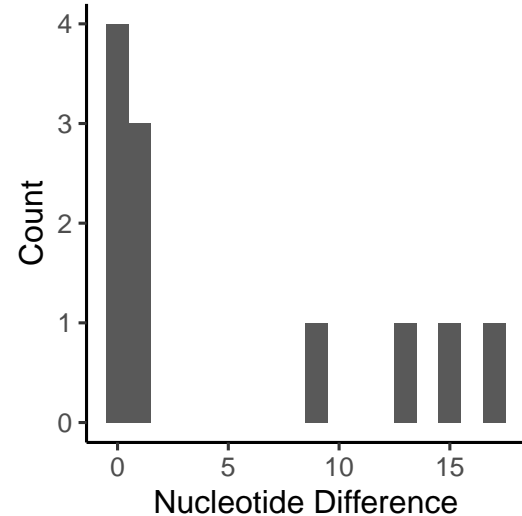
IGHV5-51*07

32 sequences assigned
10 (31.2%) exact matches, in which:
10 unique CDR3
5 unique J



IGHV7-4-1*02

11 sequences assigned
4 (36.4%) exact matches, in which:
3 unique CDR3
1 unique J



IGHV6-1*01_02_A315G

