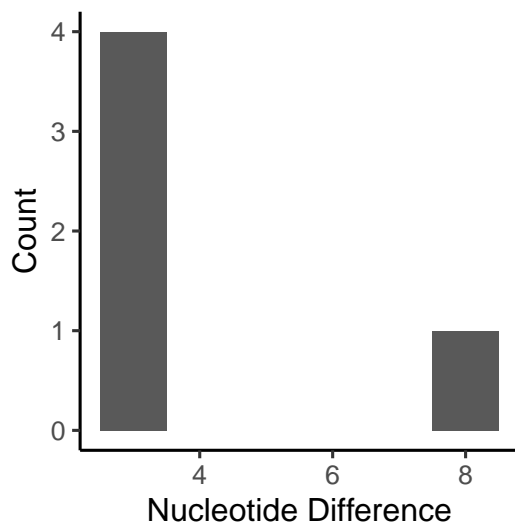


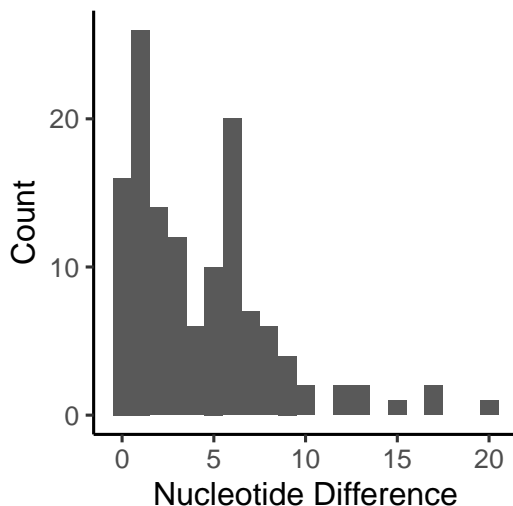
IGHV1-58*02

5 sequences assigned
No exact matches.



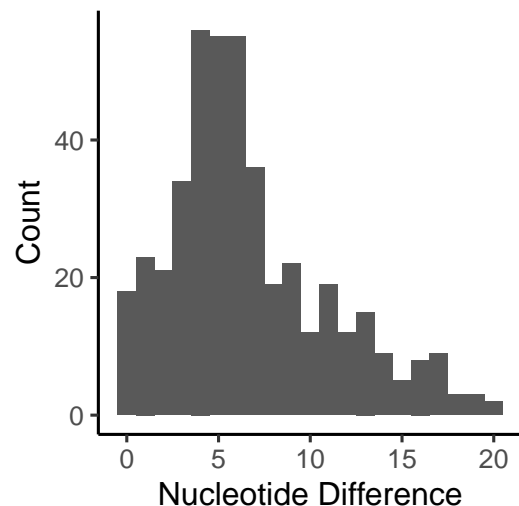
IGHV1-138*01_S2593

131 sequences assigned
16 (12.2%) exact matches, in which:
15 unique CDR3
3 unique J



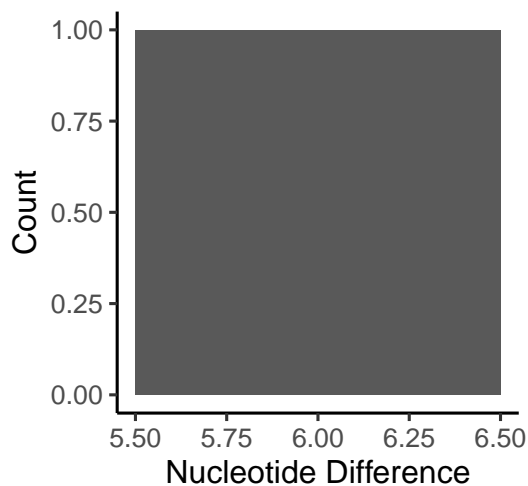
IGHV2-7*02_S4285

443 sequences assigned
18 (4.1%) exact matches, in which:
9 unique CDR3
2 unique J



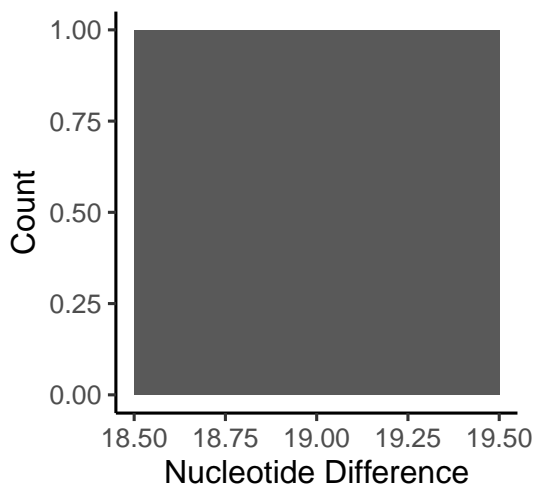
IGHV1-60*01_S7772

1 sequences assigned
No exact matches.



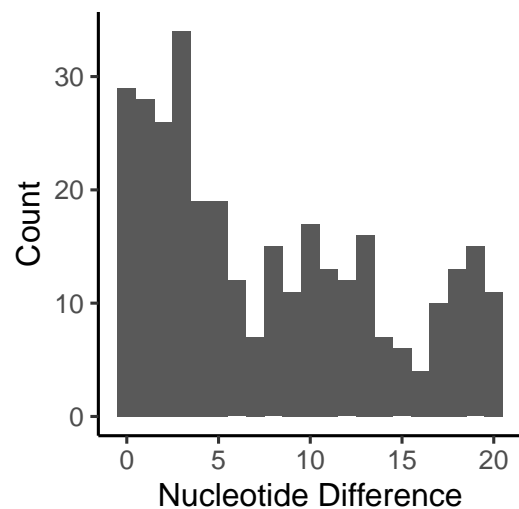
IGHV1-NL_1*01_S2052

5 sequences assigned
No exact matches.



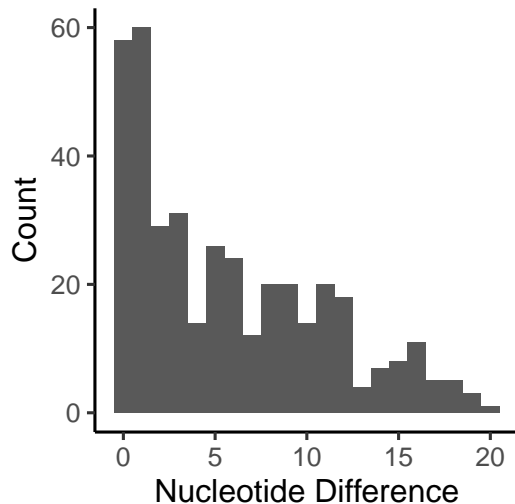
IGHV2-69*02_A252G_G2

397 sequences assigned
29 (7.3%) exact matches, in which:
24 unique CDR3
4 unique J



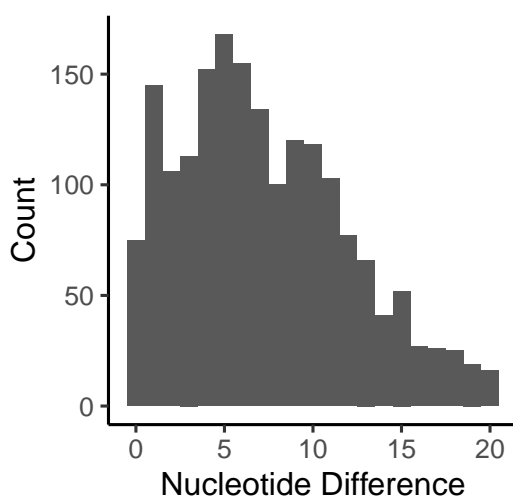
IGHV1-84*01_S0240

532 sequences assigned
58 (10.9%) exact matches, in which:
33 unique CDR3
4 unique J



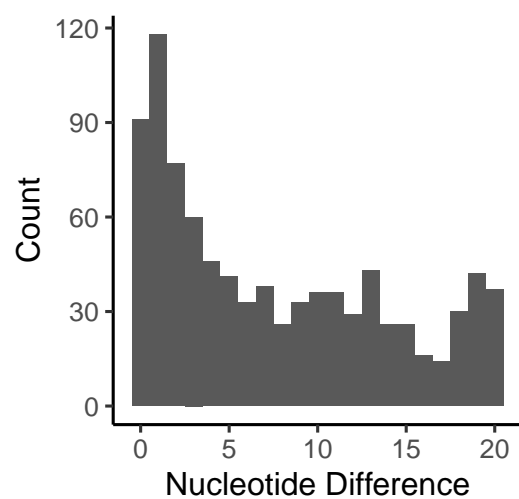
IGHV2-7*02_S1732

1920 sequences assigned
75 (3.9%) exact matches, in which:
52 unique CDR3
4 unique J



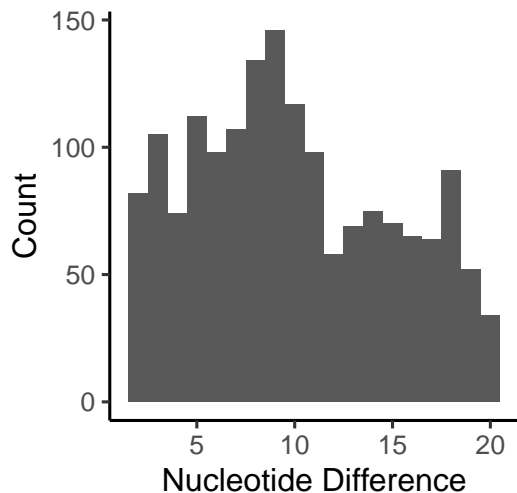
IGHV2-69*02_S0779

1220 sequences assigned
91 (7.5%) exact matches, in which:
45 unique CDR3
5 unique J



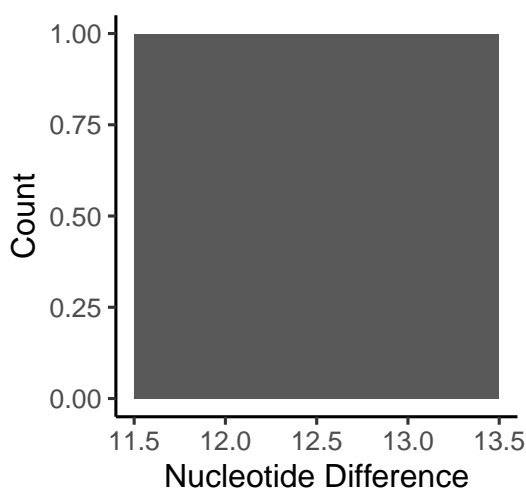
IGHV2-118*01_S6364

1991 sequences assigned
No exact matches.



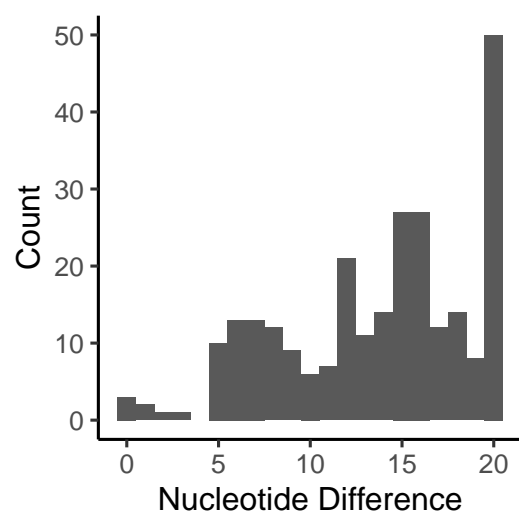
IGHV3-28*01_S3792

6 sequences assigned
No exact matches.



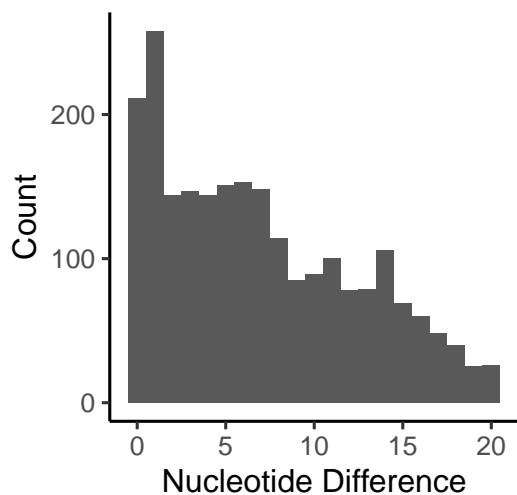
IGHV3-37*01_S6630

1126 sequences assigned
3 (0.3%) exact matches, in which:
2 unique CDR3
2 unique J



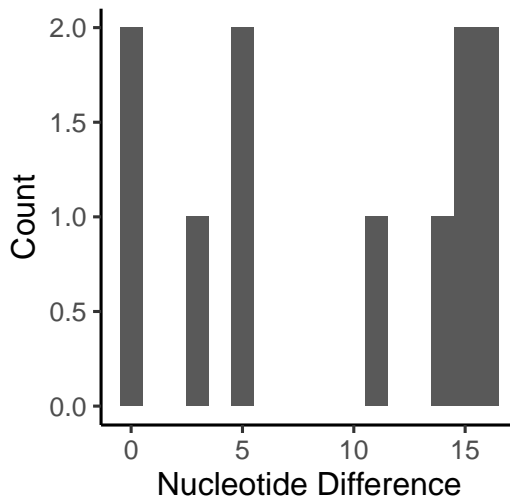
IGHV2-NL_1*01_S7874

2435 sequences assigned
211 (8.7%) exact matches, in which:
136 unique CDR3
5 unique J



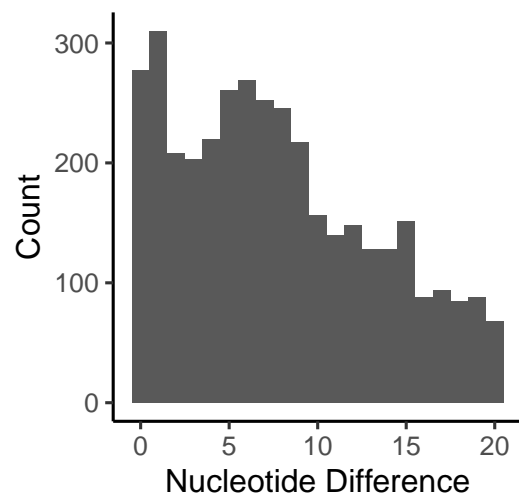
IGHV3-34*01_S1309

22 sequences assigned
2 (9.1%) exact matches, in which:
2 unique CDR3
1 unique J



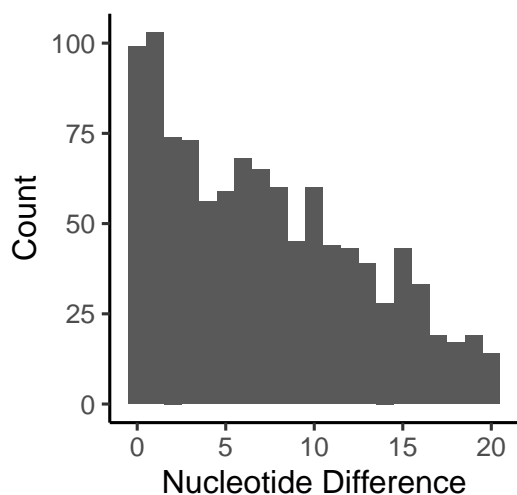
IGHV3-50*01_S1879

4431 sequences assigned
277 (6.3%) exact matches, in which:
192 unique CDR3
7 unique J



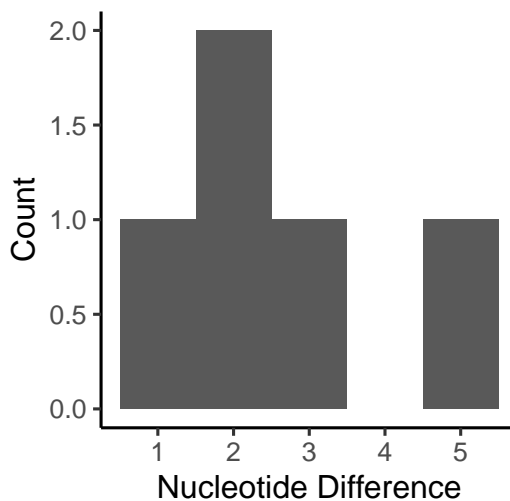
IGHV2-NL_1*01_S7874_

1118 sequences assigned
99 (8.9%) exact matches, in which:
85 unique CDR3
5 unique J



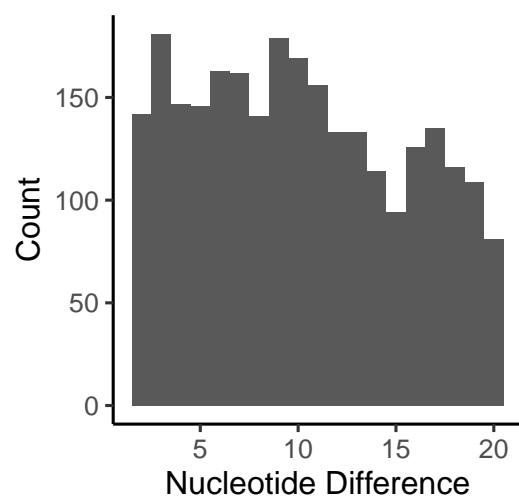
IGHV3-36*01_S5206

5 sequences assigned
No exact matches.



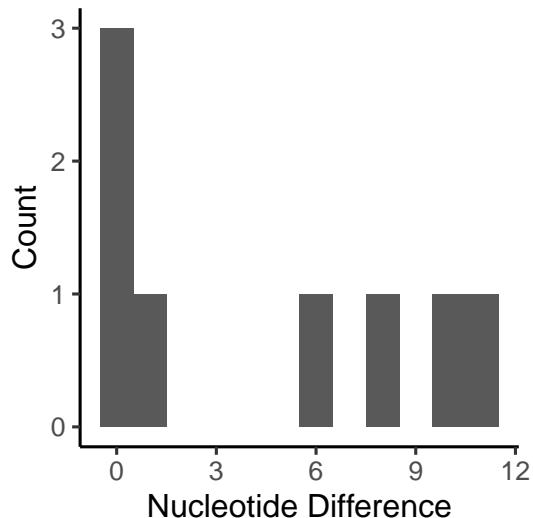
IGHV3-53*01_S2000

3127 sequences assigned
No exact matches.



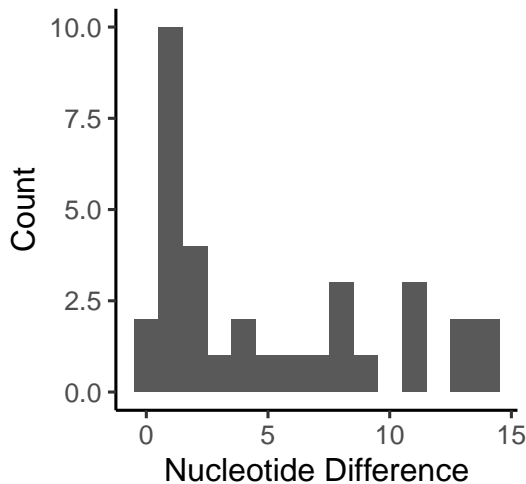
IGHV3-53*01_S3647

11 sequences assigned
3 (27.3%) exact matches, in which:
3 unique CDR3
2 unique J



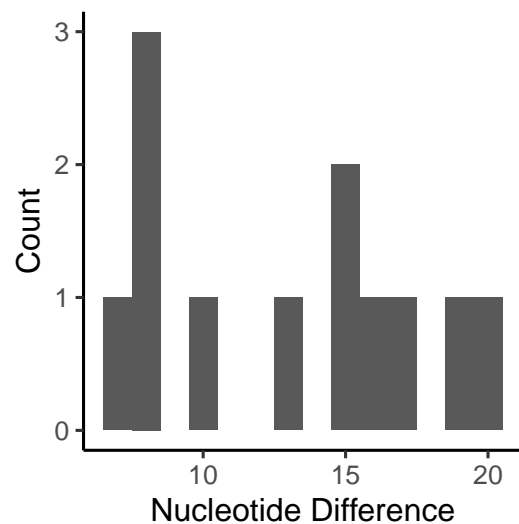
IGHV3-83*02_S9518

34 sequences assigned
2 (5.9%) exact matches, in which:
2 unique CDR3
1 unique J



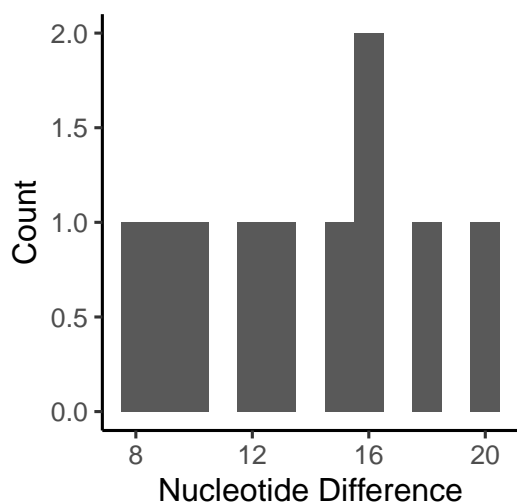
IGHV3-100*01_S4205

65 sequences assigned
No exact matches.



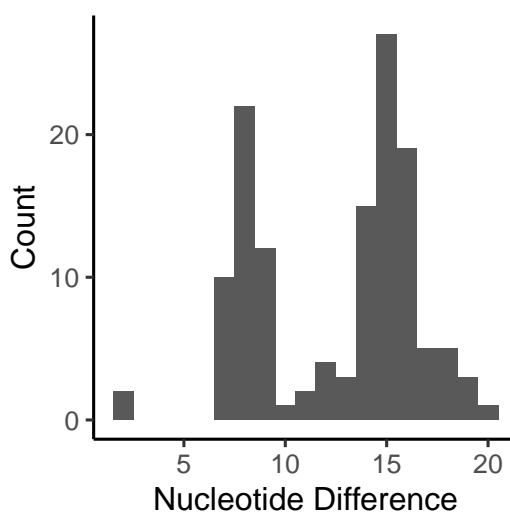
IGHV3-53*02_S0150

15 sequences assigned
No exact matches.



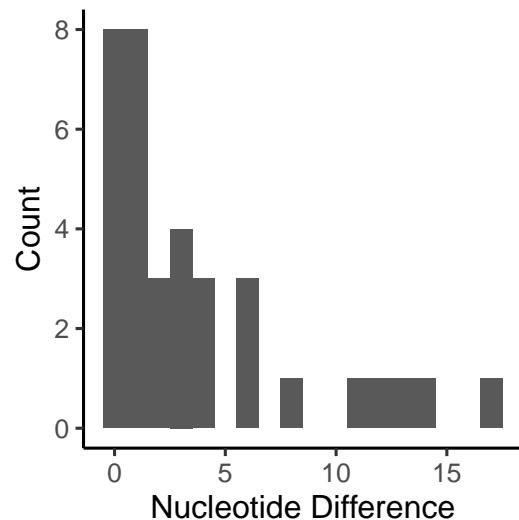
IGHV3-87*01_S6311

145 sequences assigned
No exact matches.



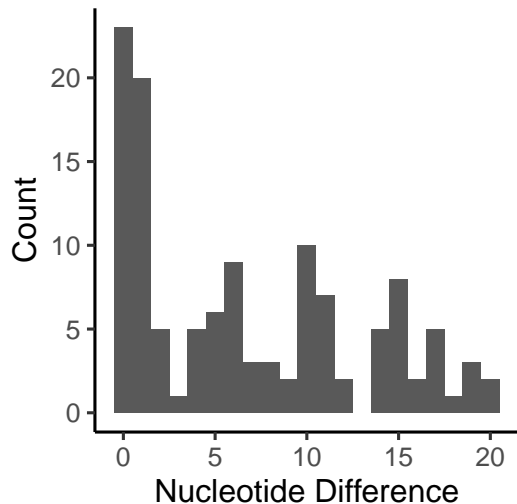
IGHV3-100*01_S4375

93 sequences assigned
8 (8.6%) exact matches, in which:
6 unique CDR3
3 unique J



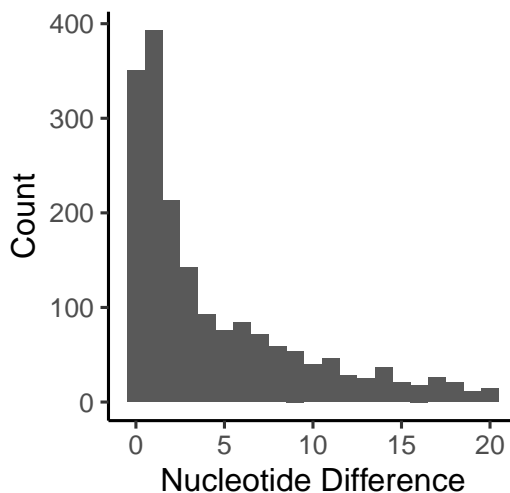
IGHV3-73*02_S7884

140 sequences assigned
23 (16.4%) exact matches, in which:
18 unique CDR3
3 unique J



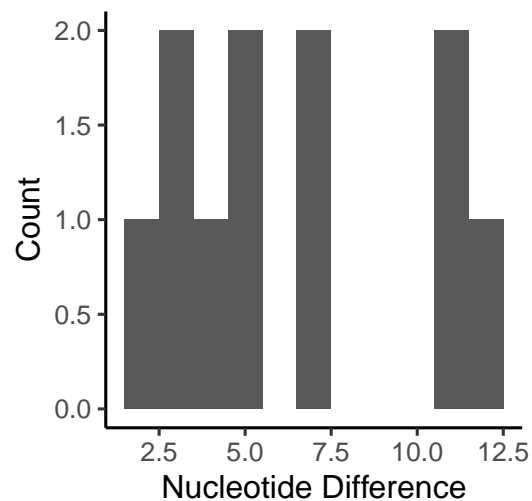
IGHV3-94*01_S3427

1916 sequences assigned
351 (18.3%) exact matches, in which:
227 unique CDR3
6 unique J



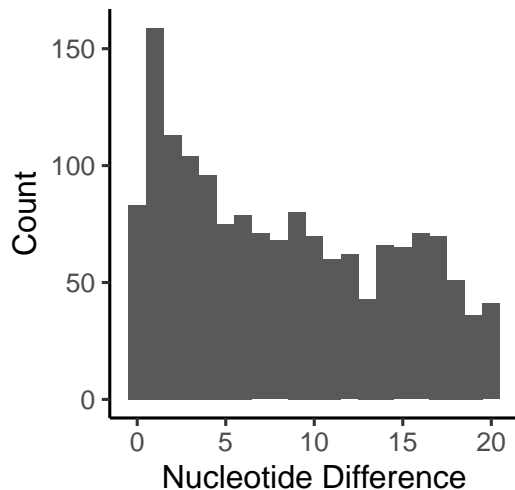
IGHV3-120*01_S4231

11 sequences assigned
No exact matches.



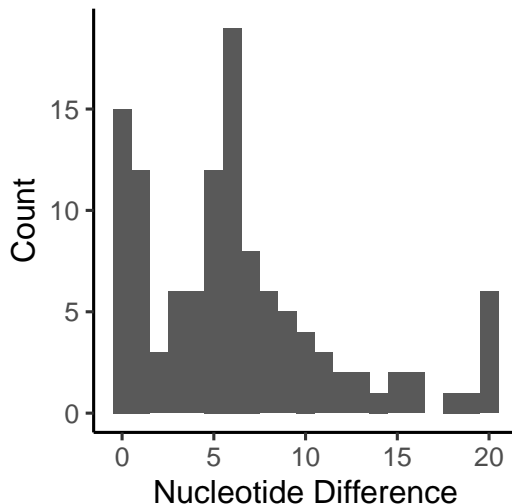
IGHV3-127*01_S5510

1803 sequences assigned
83 (4.6%) exact matches, in which:
48 unique CDR3
5 unique J



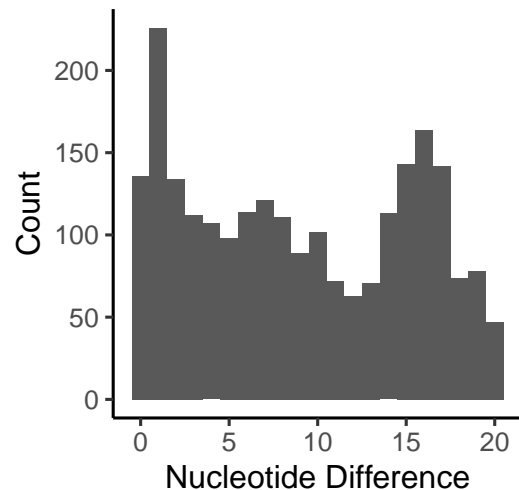
IGHV3-141*01_S2525

133 sequences assigned
15 (11.3%) exact matches, in which:
13 unique CDR3
3 unique J



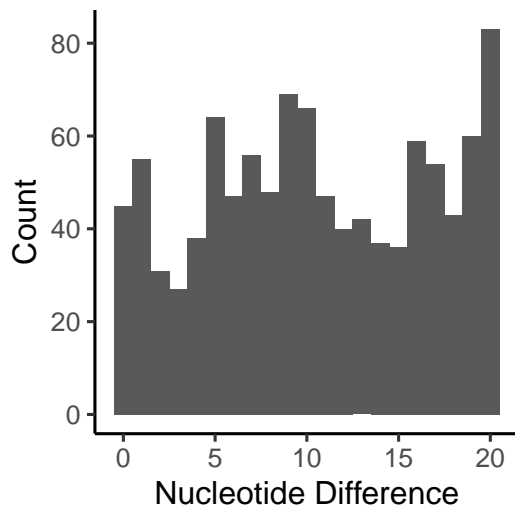
IGHV3-175*01_S1248

2643 sequences assigned
136 (5.1%) exact matches, in which:
74 unique CDR3
4 unique J



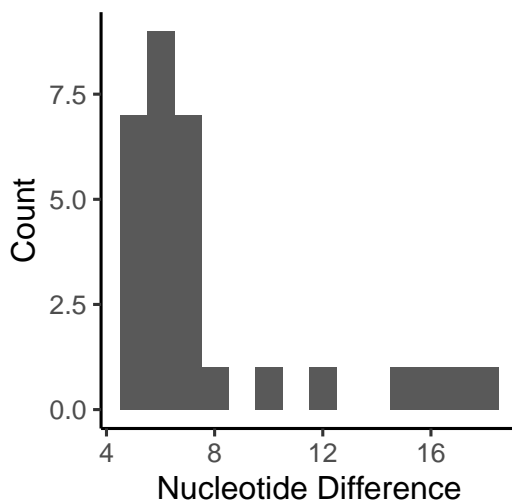
IGHV3-128*02_S0204

1403 sequences assigned
45 (3.2%) exact matches, in which:
29 unique CDR3
5 unique J



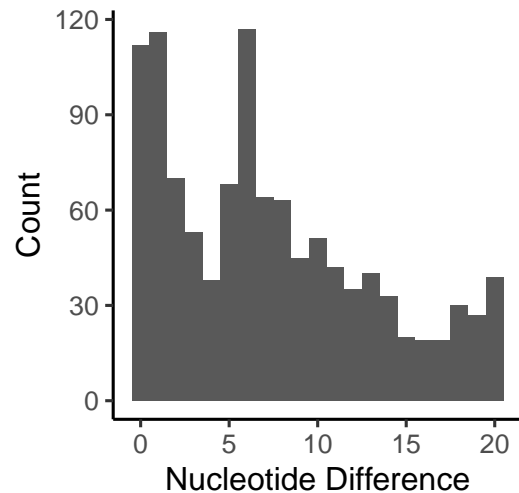
IGHV3-141*02_S4530

31 sequences assigned
No exact matches.



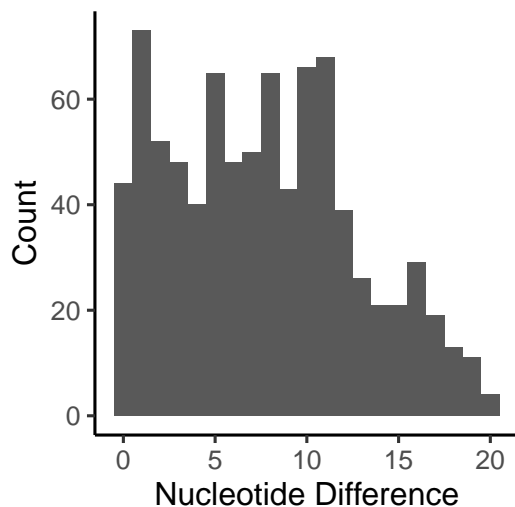
IGHV3-177*01_S5369

1540 sequences assigned
112 (7.3%) exact matches, in which:
79 unique CDR3
5 unique J



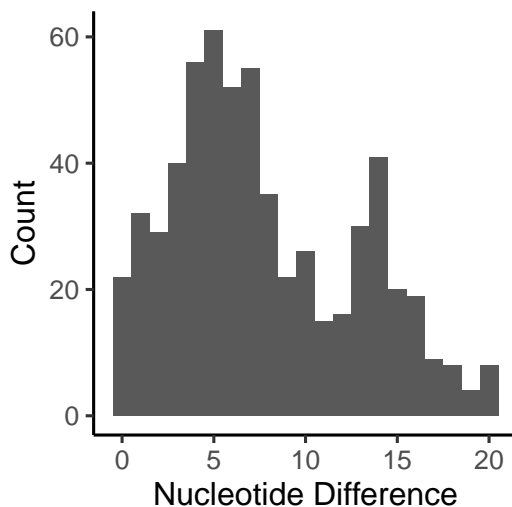
IGHV3-128*02_S6042

965 sequences assigned
44 (4.6%) exact matches, in which:
28 unique CDR3
3 unique J



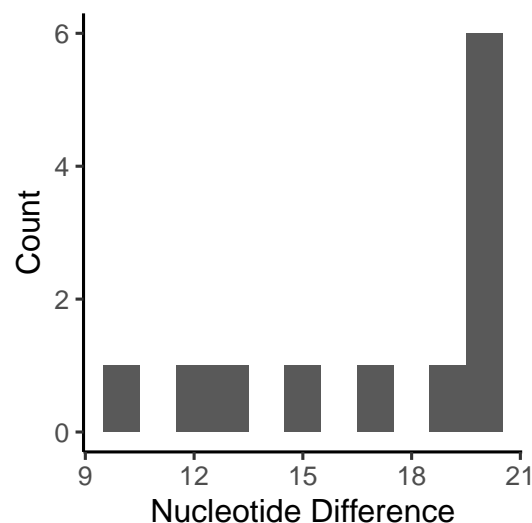
IGHV3-172*01_S8824

626 sequences assigned
22 (3.5%) exact matches, in which:
11 unique CDR3
1 unique J



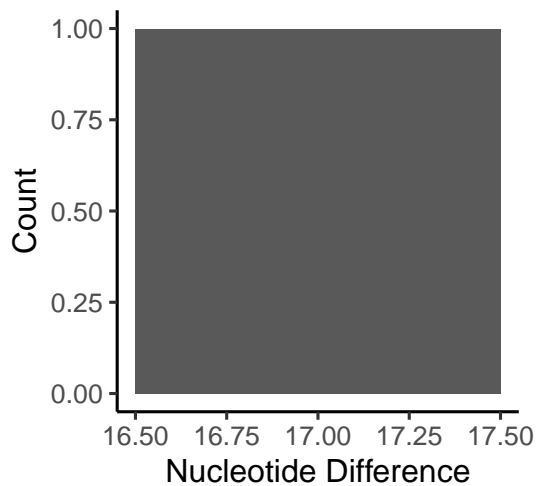
IGHV3-187*01_S2144

52 sequences assigned
No exact matches.



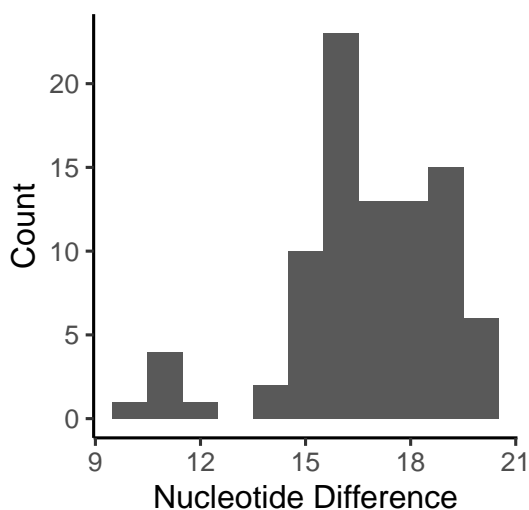
IGHV3-187*01_S3395

3 sequences assigned
No exact matches.



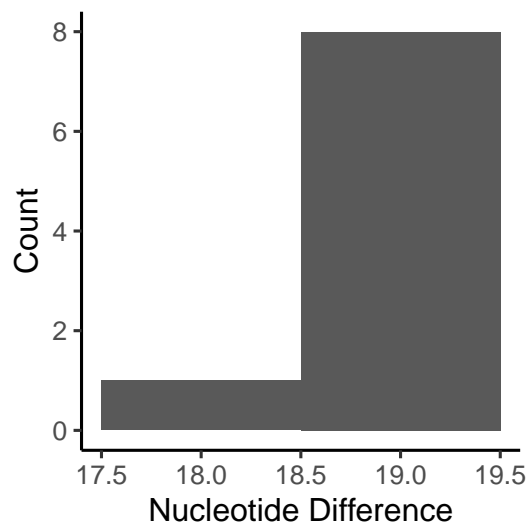
IGHV3-NL_10*02_S2212

362 sequences assigned
No exact matches.



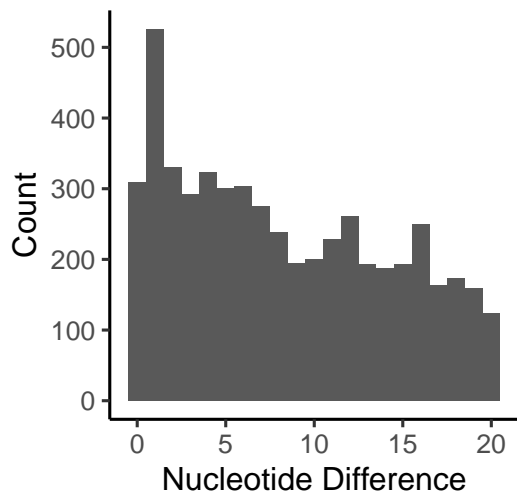
IGHV3-NL_13*01_S3940

32 sequences assigned
No exact matches.



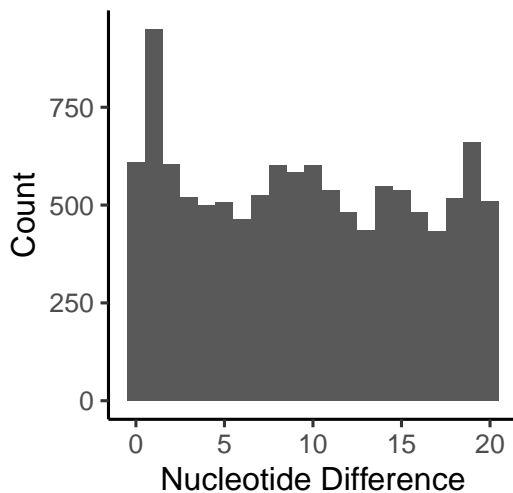
IGHV3-NL_1*01_S9854

7642 sequences assigned
309 (4%) exact matches, in which:
188 unique CDR3
6 unique J



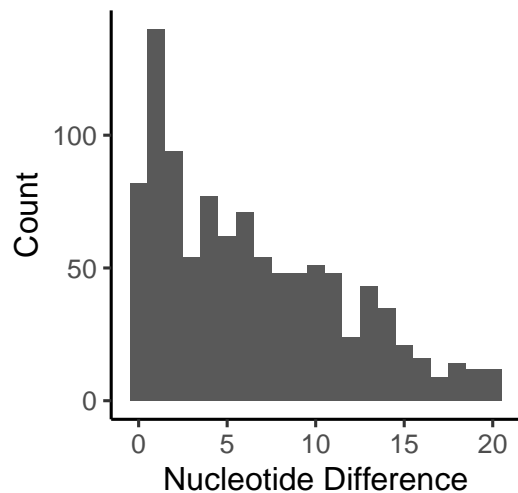
IGHV3-NL_11*01_S3736

16113 sequences assigned
609 (3.8%) exact matches, in which:
391 unique CDR3
6 unique J



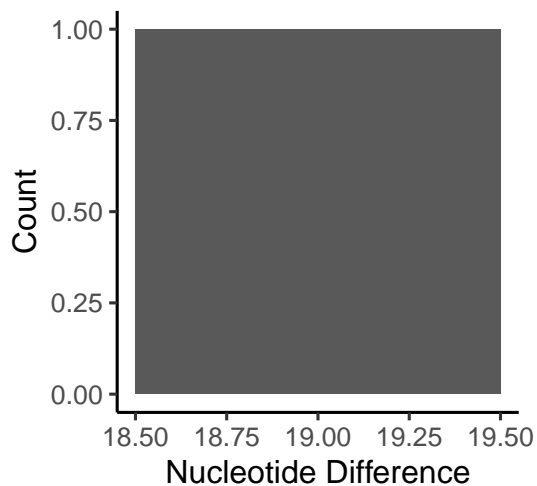
IGHV3-NL_14*01_S0218

1075 sequences assigned
82 (7.6%) exact matches, in which:
61 unique CDR3
5 unique J



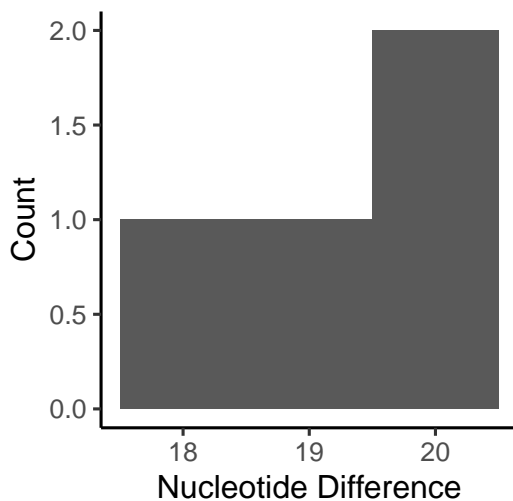
IGHV3-NL_10*02_S1970

2 sequences assigned
No exact matches.



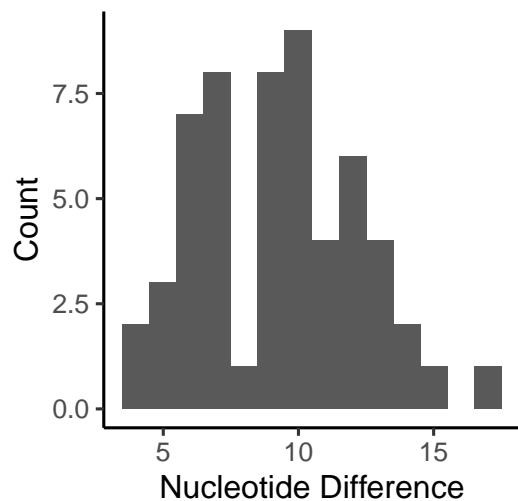
IGHV3-NL_12*02_S6994

12 sequences assigned
No exact matches.



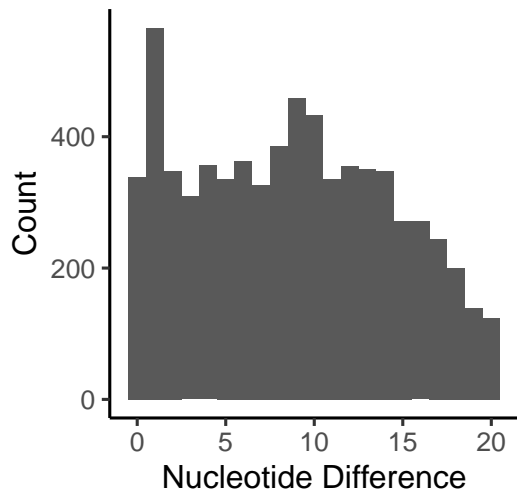
IGHV3-NL_16*01_S5133

58 sequences assigned
No exact matches.



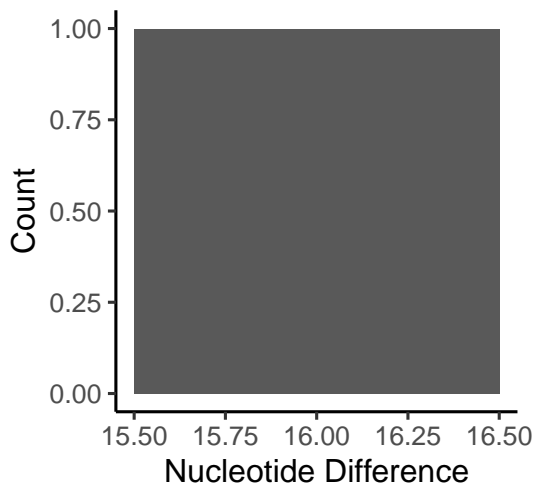
IGHV3–NL_17*01_S4736

7734 sequences assigned
339 (4.4%) exact matches, in which:
199 unique CDR3
5 unique J



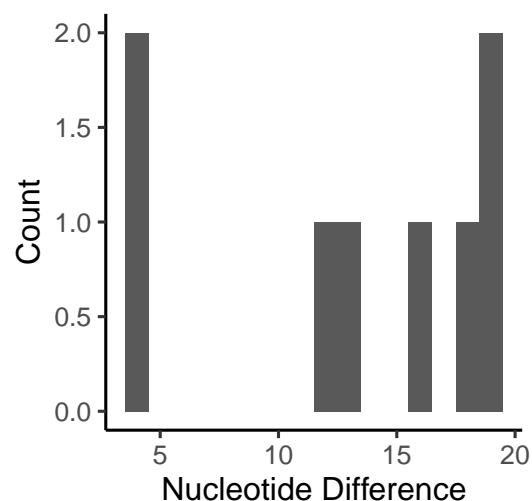
IGHV3–NL_8*01_S7860

5 sequences assigned
No exact matches.



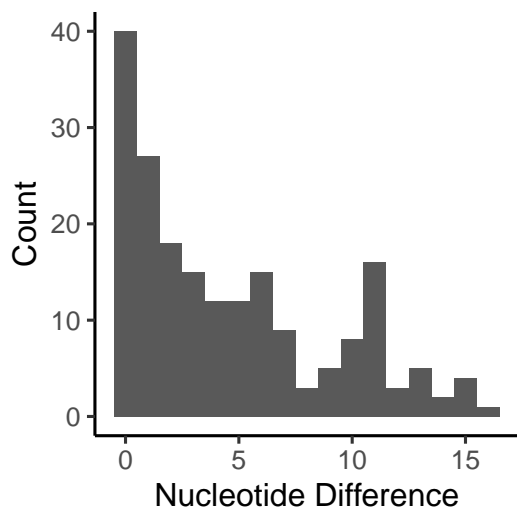
IGHV4–79*02_S9501

15 sequences assigned
No exact matches.



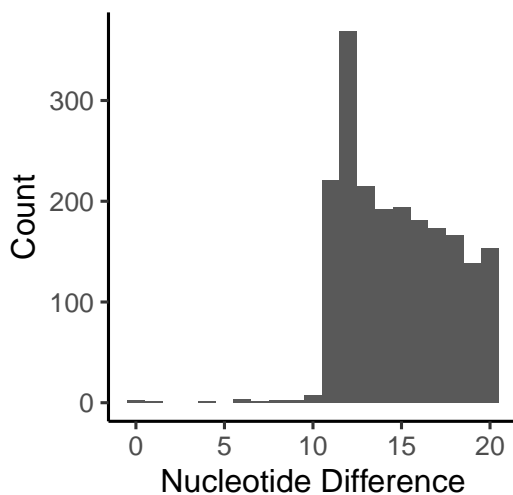
IGHV3–NL_18*01_S7053

223 sequences assigned
40 (17.9%) exact matches, in which:
24 unique CDR3
2 unique J



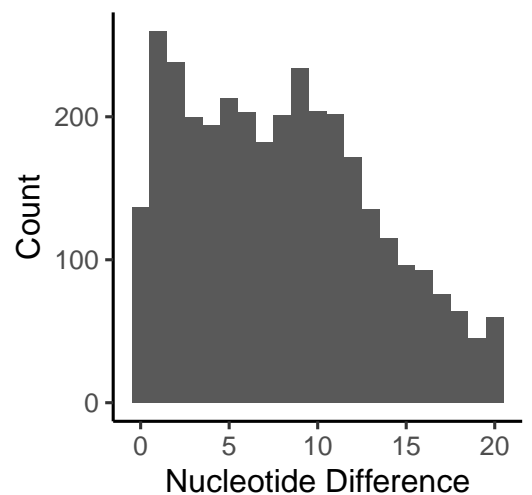
IGHV3–NL_9*01_S6098

3825 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
1 unique J



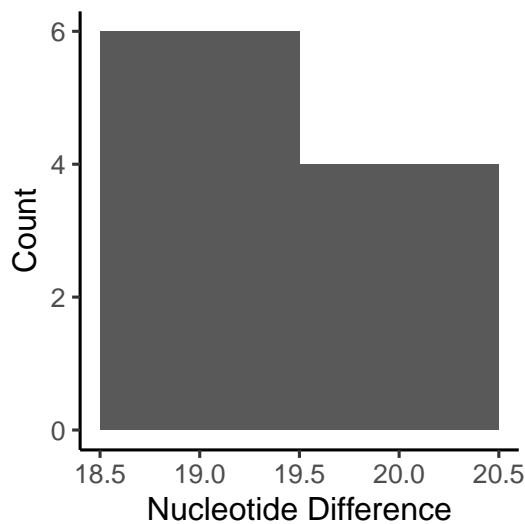
IGHV4–93*01_S0998

3930 sequences assigned
137 (3.5%) exact matches, in which:
110 unique CDR3
5 unique J



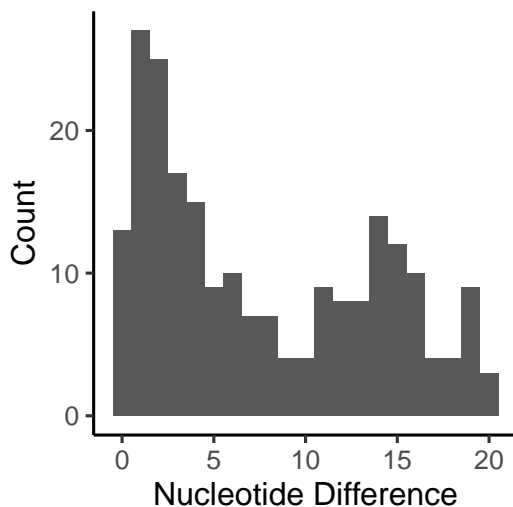
IGHV3–NL_8*01_S7474

55 sequences assigned
No exact matches.



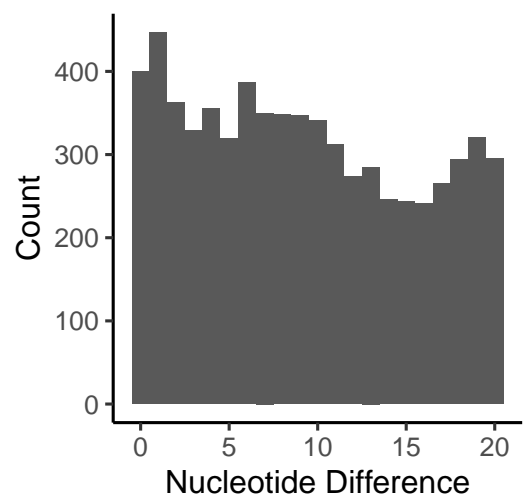
IGHV4–67*02_S8103

309 sequences assigned
13 (4.2%) exact matches, in which:
11 unique CDR3
4 unique J



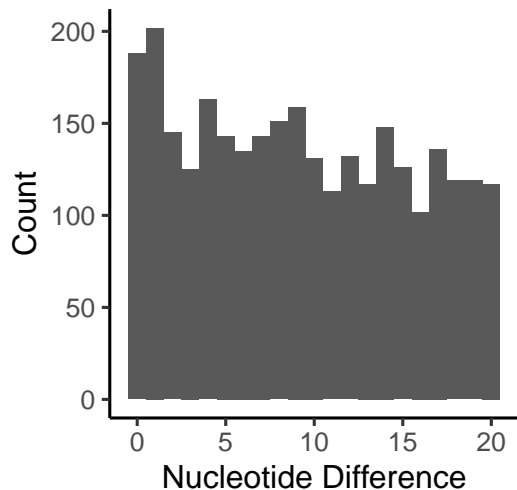
IGHV4–149*01_S1166

9313 sequences assigned
400 (4.3%) exact matches, in which:
317 unique CDR3
5 unique J



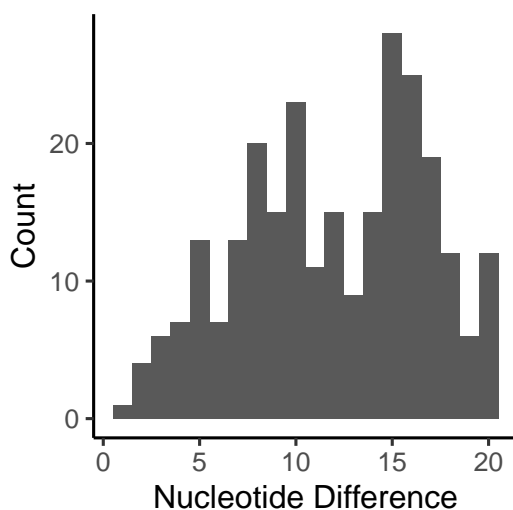
IGHV4-149*01_S1430

3983 sequences assigned
188 (4.7%) exact matches, in which:
136 unique CDR3
5 unique J



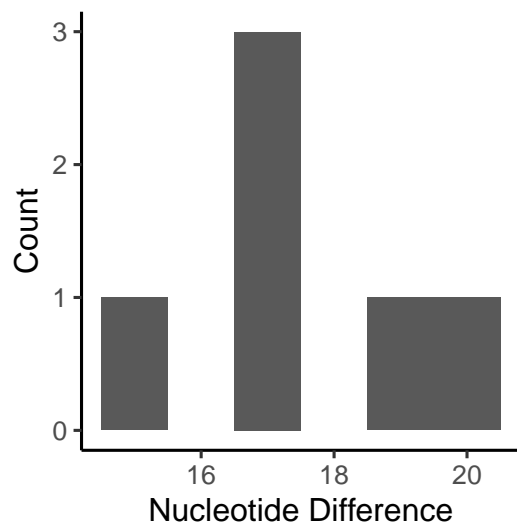
IGHV4-NL_1*01_S1593

346 sequences assigned
No exact matches.



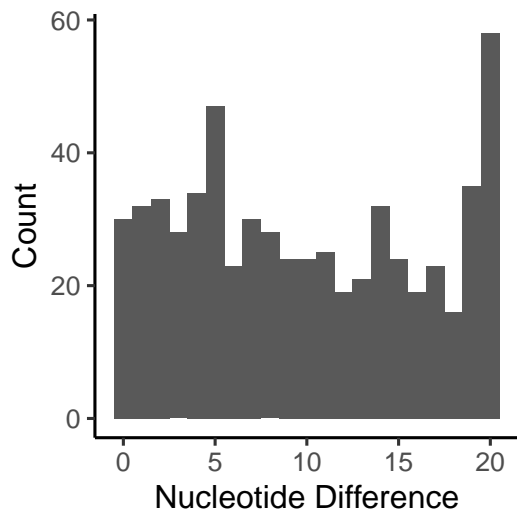
IGHV4-NL_10*01_S6744

7 sequences assigned
No exact matches.



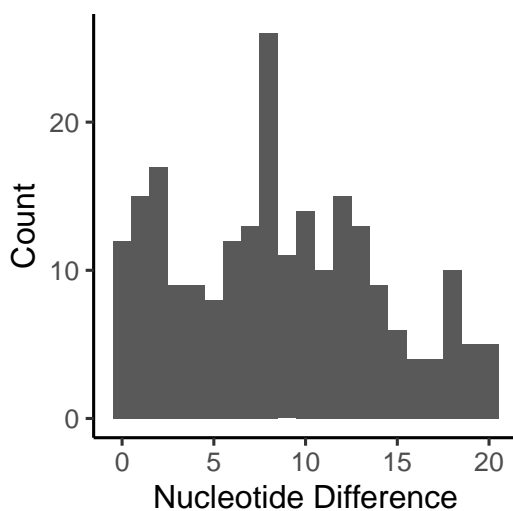
IGHV4-150*01_S2067

931 sequences assigned
30 (3.2%) exact matches, in which:
26 unique CDR3
4 unique J



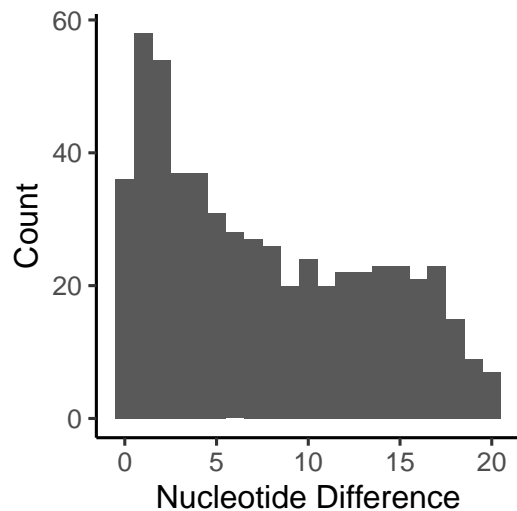
IGHV4-NL_1*01_S4155

281 sequences assigned
12 (4.3%) exact matches, in which:
9 unique CDR3
3 unique J



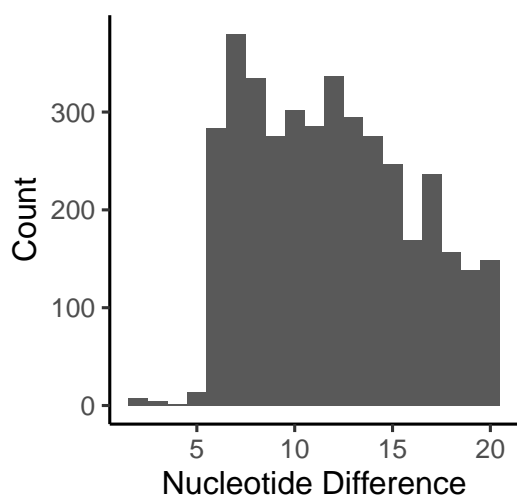
IGHV4-NL_11*01_S0325

606 sequences assigned
36 (5.9%) exact matches, in which:
31 unique CDR3
4 unique J



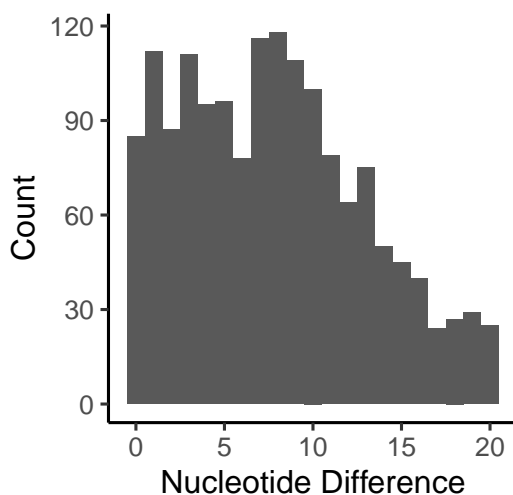
IGHV4-174*02_S5400

5245 sequences assigned
No exact matches.



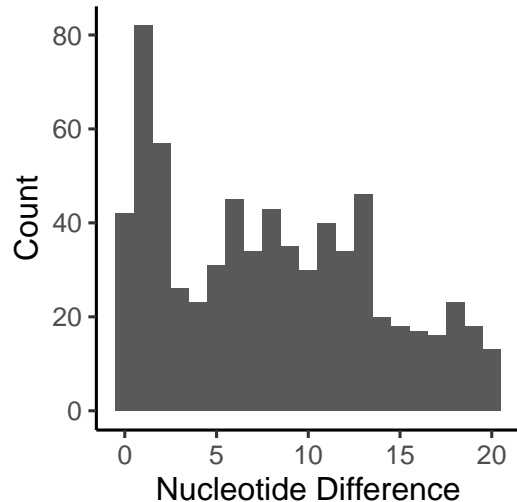
IGHV4-NL_1*01_S9508

1705 sequences assigned
85 (5%) exact matches, in which:
68 unique CDR3
5 unique J



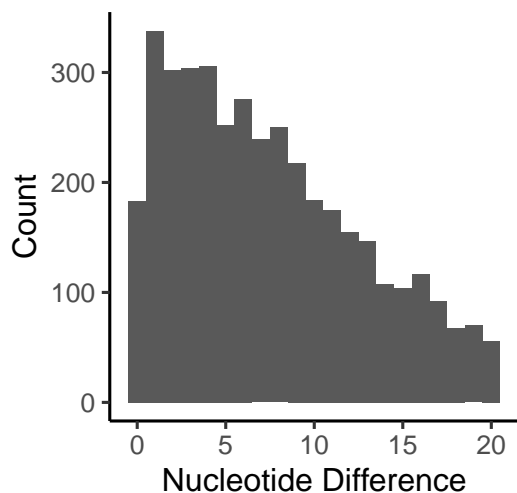
IGHV4-NL_11*01_S4651

898 sequences assigned
42 (4.7%) exact matches, in which:
37 unique CDR3
5 unique J



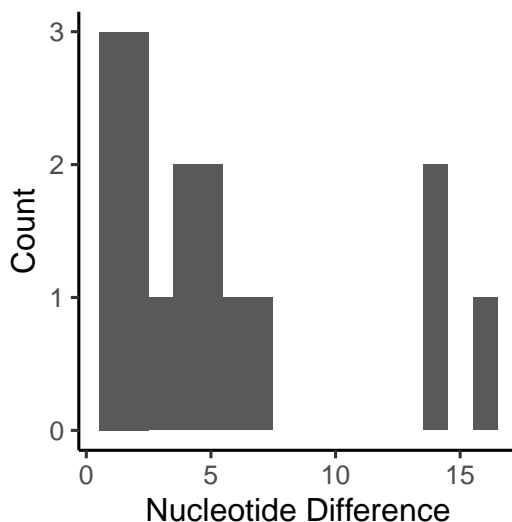
IGHV4–NL_12*01_S8068

4676 sequences assigned
183 (3.9%) exact matches, in which:
151 unique CDR3
5 unique J



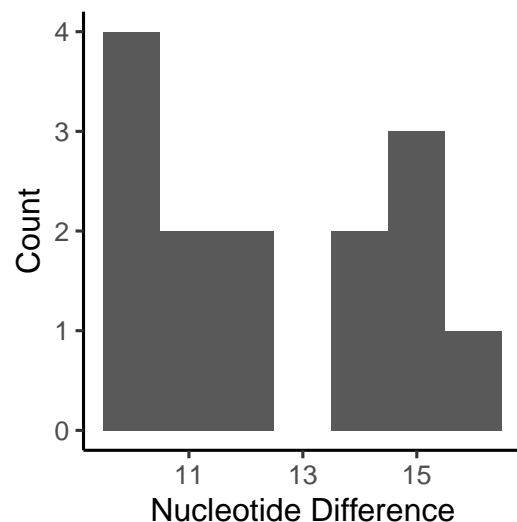
IGHV4–NL_17*01_S4099

18 sequences assigned
No exact matches.



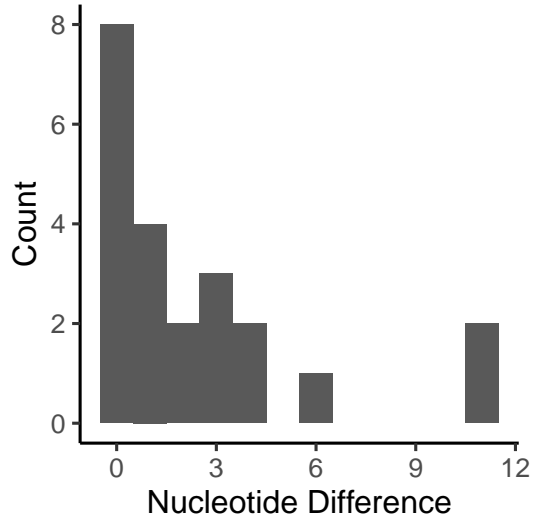
IGHV4–NL_21*01_S7469

17 sequences assigned
No exact matches.



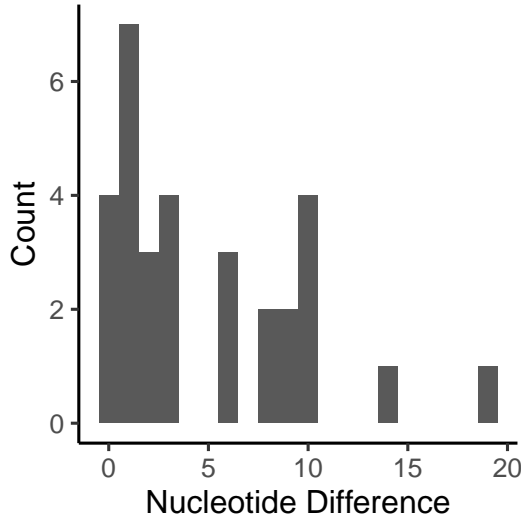
IGHV4–NL_16*01_S2324

23 sequences assigned
8 (34.8%) exact matches, in which:
7 unique CDR3
4 unique J



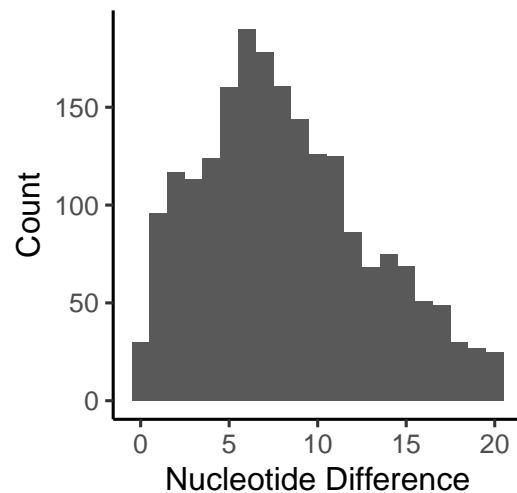
IGHV4–NL_21*01_S0138

35 sequences assigned
4 (11.4%) exact matches, in which:
4 unique CDR3
2 unique J



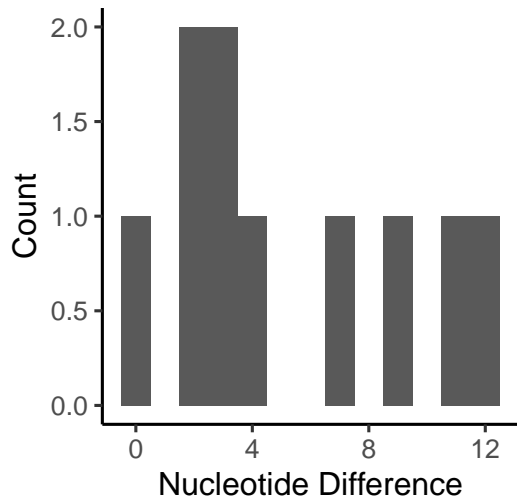
IGHV4–NL_22*01_S2393

2229 sequences assigned
30 (1.3%) exact matches, in which:
28 unique CDR3
4 unique J



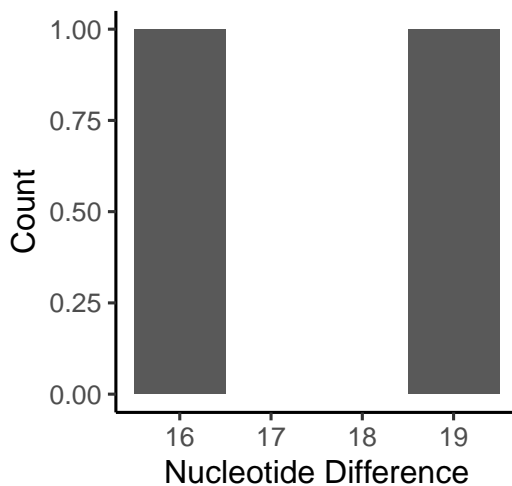
IGHV4–NL_17*01_S0904

11 sequences assigned
1 (9.1%) exact matches, in which:
1 unique CDR3
1 unique J



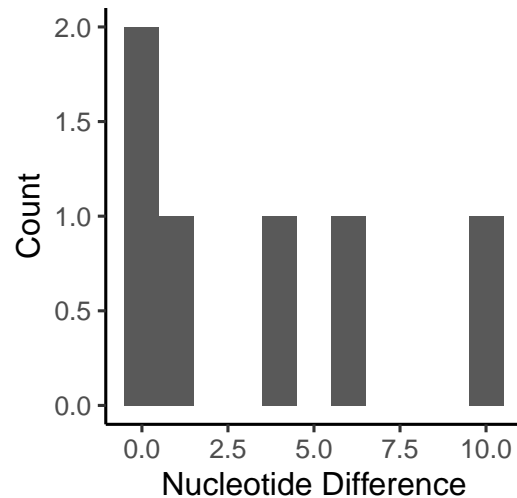
IGHV4–NL_21*01_S6468

4 sequences assigned
No exact matches.



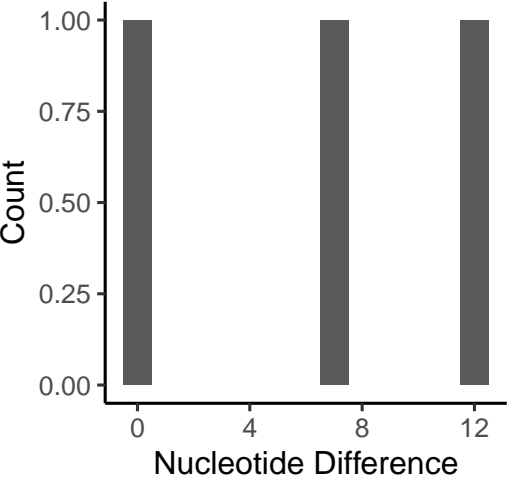
IGHV4–NL_23*01_S1296

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
1 unique J



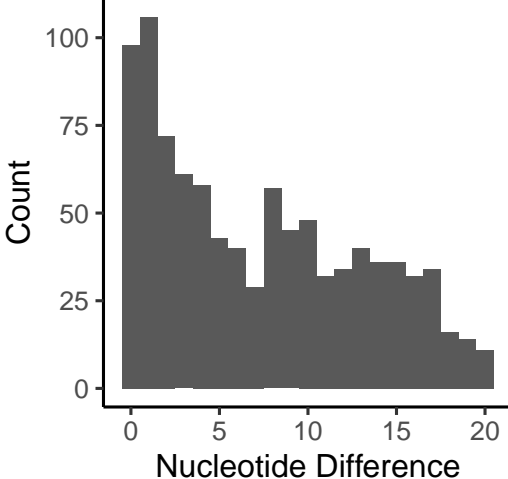
IGHV4-NL_23*01_S7000

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



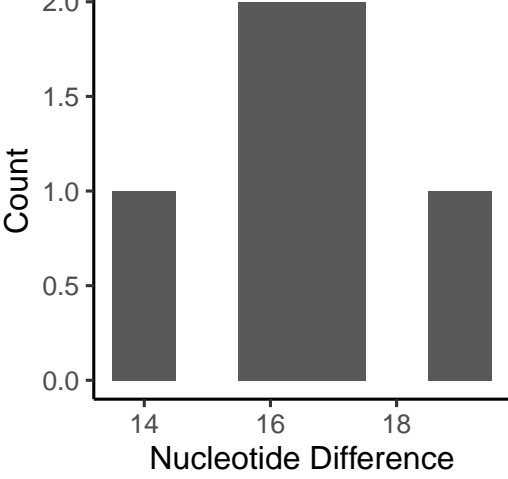
IGHV4-NL_27*01_S3510

1213 sequences assigned
98 (8.1%) exact matches, in which:
78 unique CDR3
5 unique J



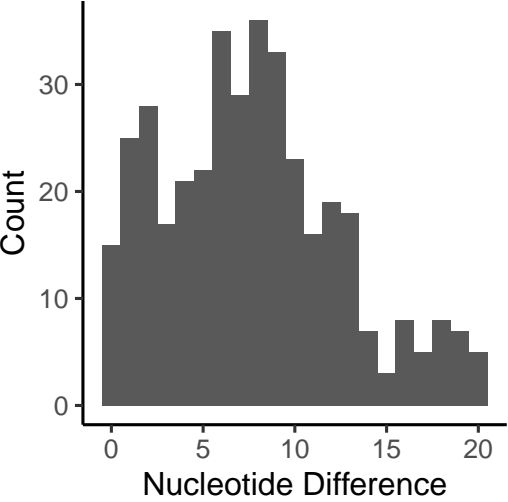
IGHV4-NL_3*01_S7576

9 sequences assigned
No exact matches.



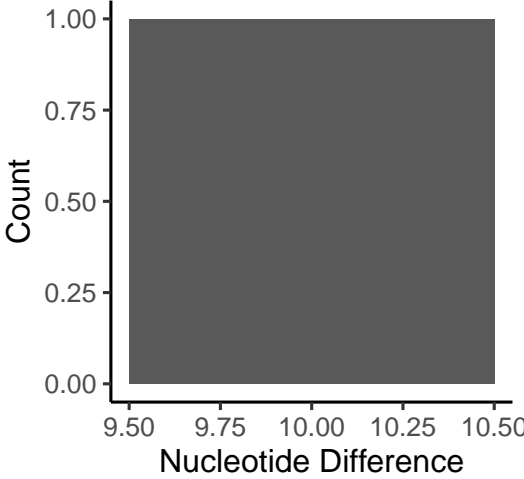
IGHV4-NL_24*01_S1628

397 sequences assigned
15 (3.8%) exact matches, in which:
14 unique CDR3
3 unique J



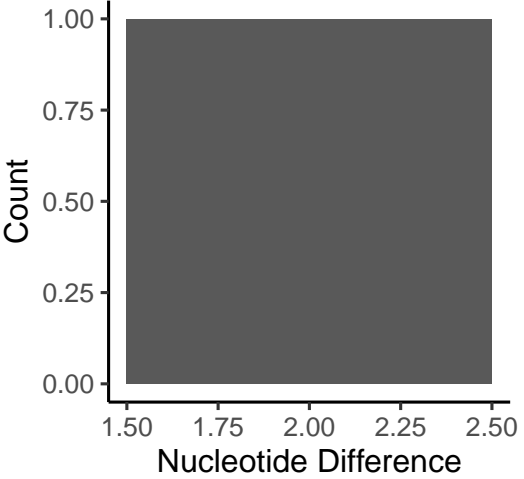
IGHV4-NL_28*01_S2610

1 sequences assigned
No exact matches.



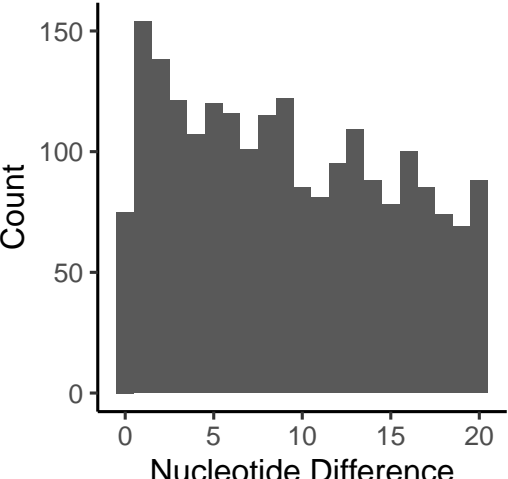
IGHV4-NL_30*01_S4250

17 sequences assigned
No exact matches.



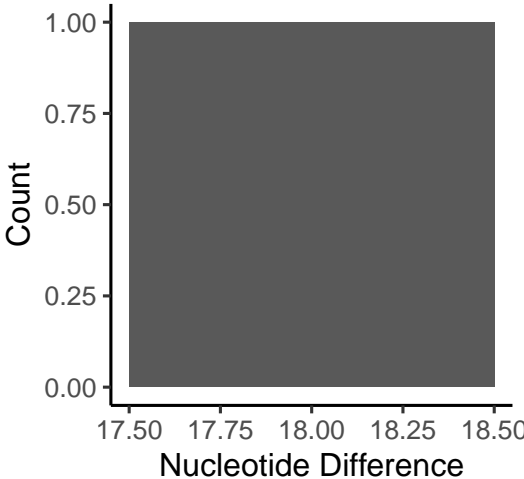
IGHV4-NL_25*01_S9955

2939 sequences assigned
75 (2.6%) exact matches, in which:
61 unique CDR3
6 unique J



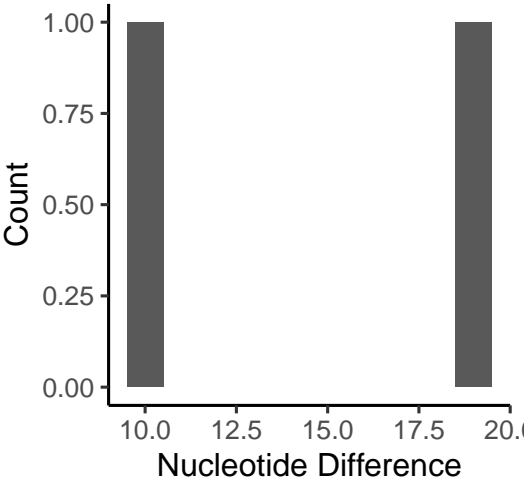
IGHV4-NL_29*01_S3760

1 sequences assigned
No exact matches.



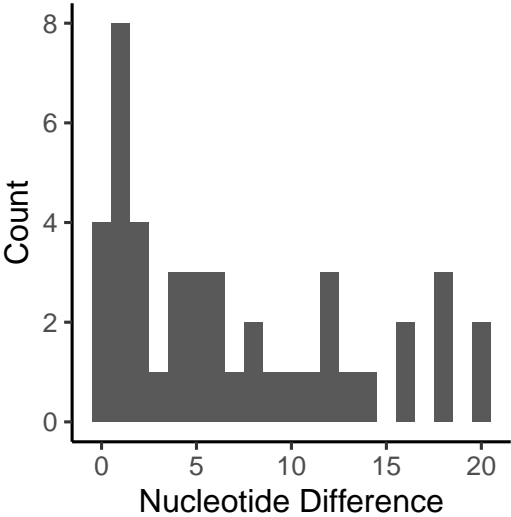
IGHV4-NL_31*01_S7690

7 sequences assigned
No exact matches.



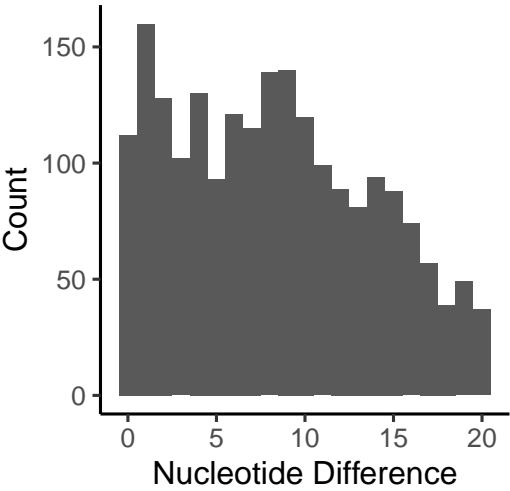
IGHV4–NL_33*01_S4377

334 sequences assigned
4 (1.2%) exact matches, in which:
4 unique CDR3
2 unique J



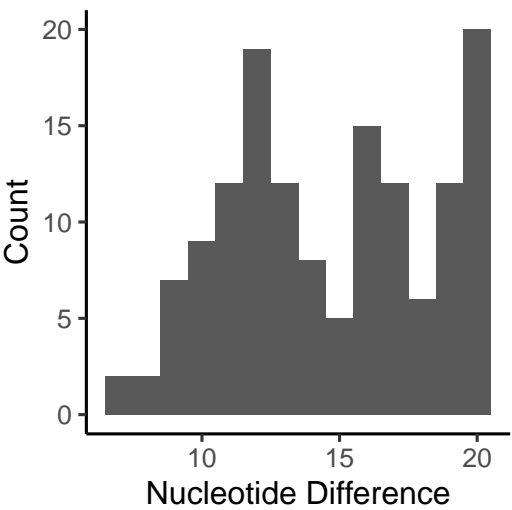
IGHV4–NL_36*01_S9506

2369 sequences assigned
112 (4.7%) exact matches, in which:
81 unique CDR3
5 unique J



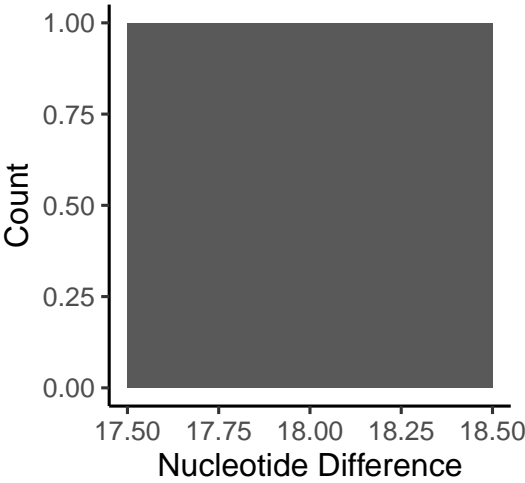
IGHV4–NL_4*01_S5211

246 sequences assigned
No exact matches.



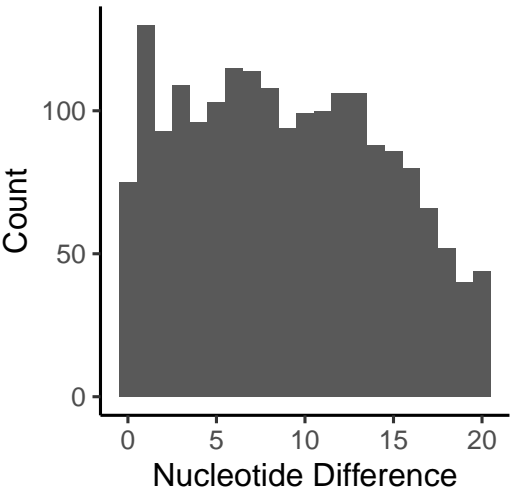
IGHV4–NL_34*01_S4749

1 sequences assigned
No exact matches.



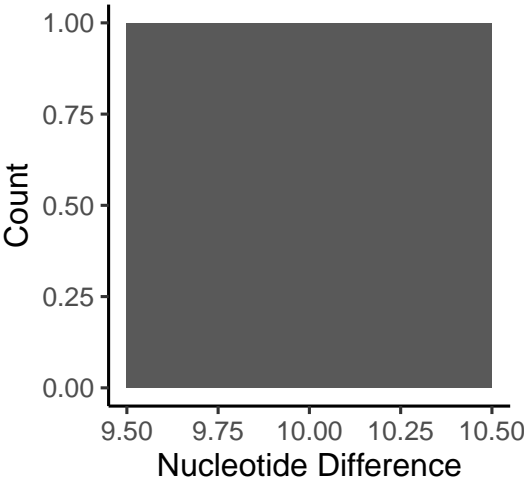
IGHV4–NL_36*01_S9644

2349 sequences assigned
75 (3.2%) exact matches, in which:
60 unique CDR3
5 unique J



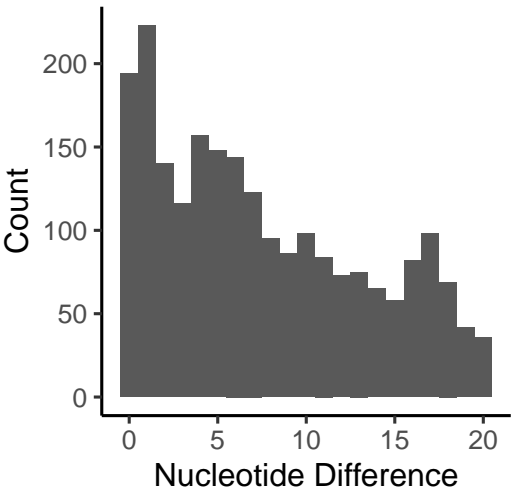
IGHV4–NL_40*01_S5093

1 sequences assigned
No exact matches.



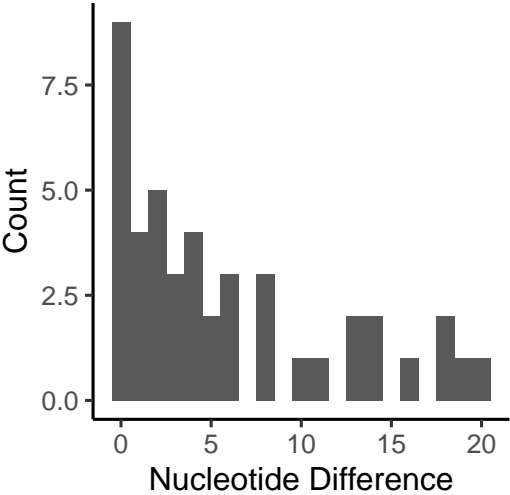
IGHV4–NL_36*01_S3269

2636 sequences assigned
194 (7.4%) exact matches, in which:
152 unique CDR3
6 unique J



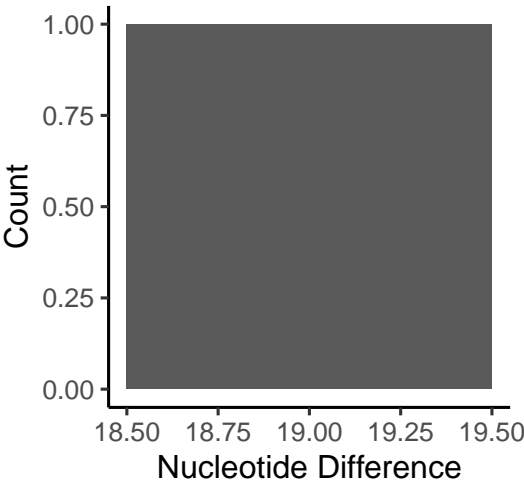
IGHV4–NL_38*01_S8437

48 sequences assigned
9 (18.8%) exact matches, in which:
9 unique CDR3
2 unique J



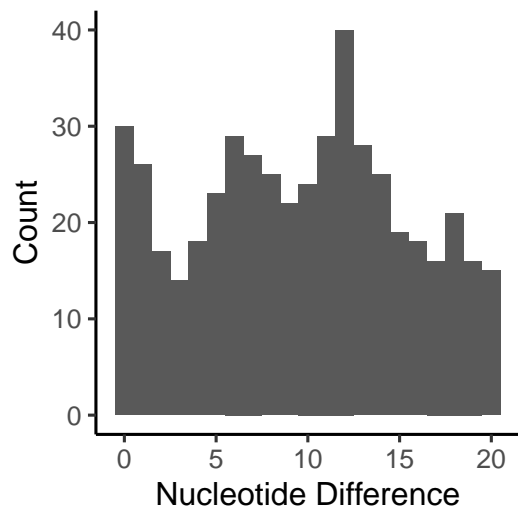
IGHV4–NL_42*01_S3076

1 sequences assigned
No exact matches.



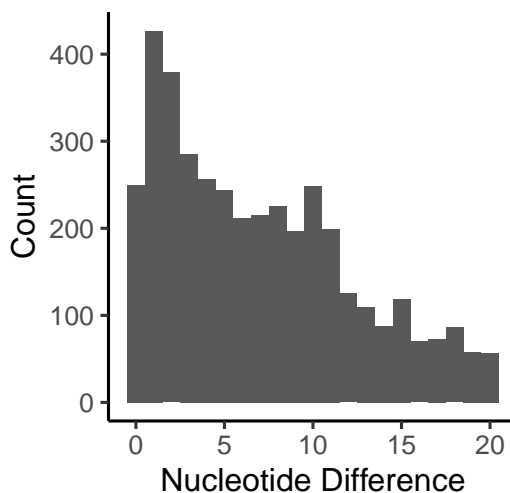
IGHV4–NL_5*01_S4603

614 sequences assigned
30 (4.9%) exact matches, in which:
26 unique CDR3
5 unique J



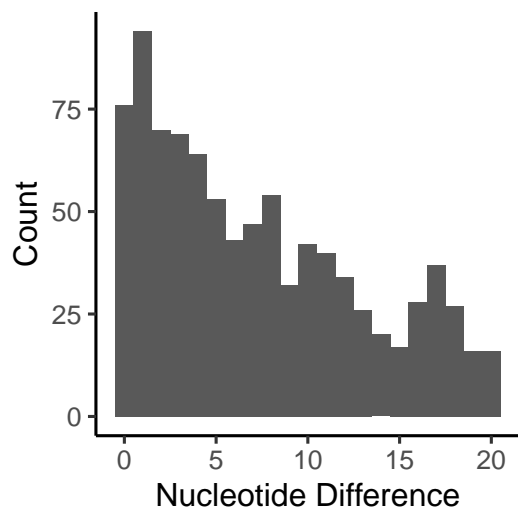
IGHV5–157*01_S5960

4236 sequences assigned
250 (5.9%) exact matches, in which:
129 unique CDR3
5 unique J



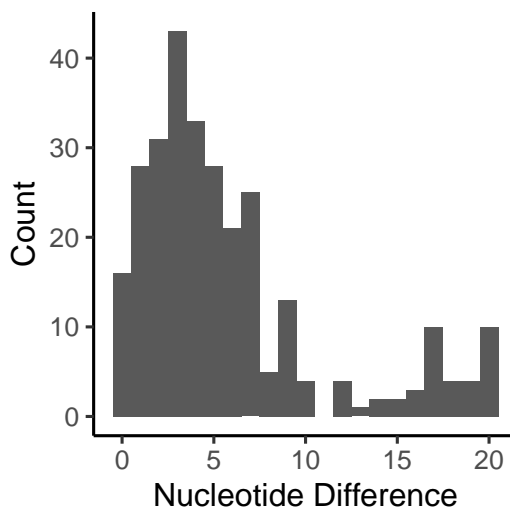
IGHV4–NL_9*01_S1435

1057 sequences assigned
76 (7.2%) exact matches, in which:
50 unique CDR3
5 unique J



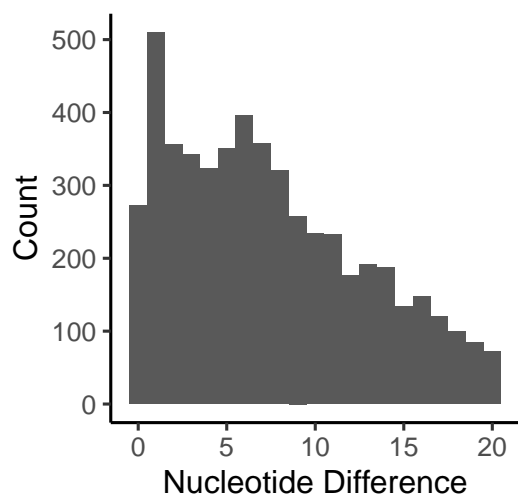
IGHV7–135*01_S9086

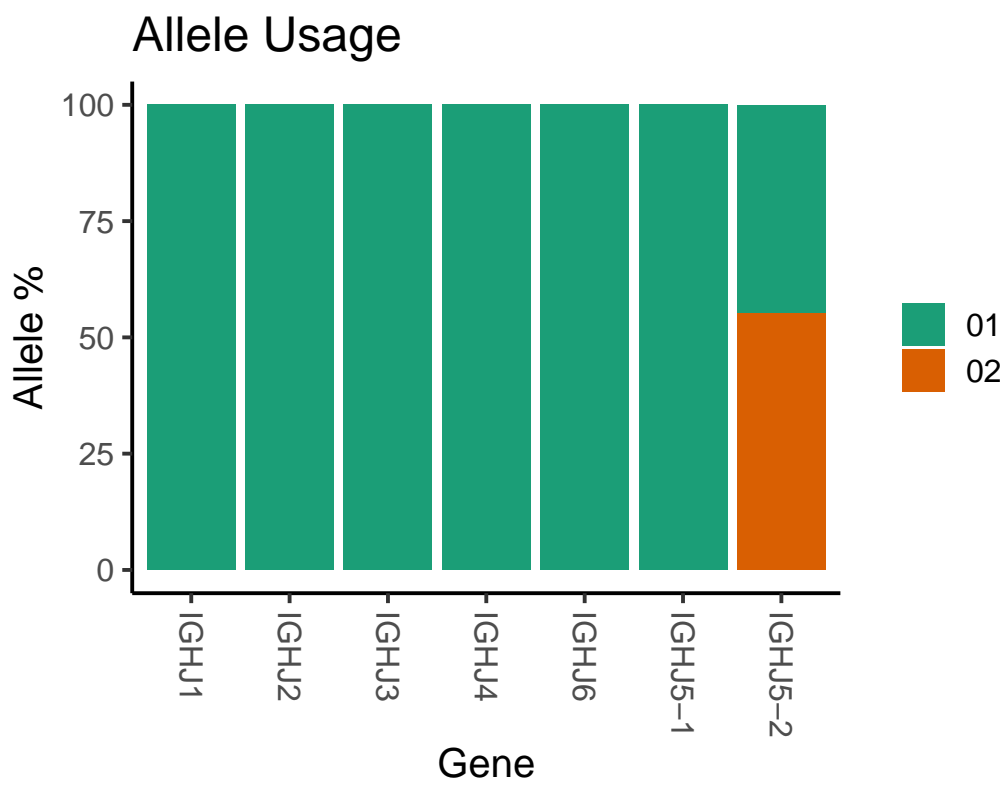
1830 sequences assigned
16 (0.9%) exact matches, in which:
7 unique CDR3
4 unique J



IGHV5–15*01_S2952

5575 sequences assigned
273 (4.9%) exact matches, in which:
171 unique CDR3
7 unique J





Sequence Count by IGHJ5–2 allele usage



Warning – no inferred sequences found.