

Table S1. Total number of reads per sample

S. No.	Sample_Name	Read_Count
1	1009_FCH7L2KCCX2_L8_BISvveXAAEFAAA-97_1	4,666,324
2	1009_FCH7L2KCCX2_L8_BISvveXAAEFAAA-97_2	4,666,324
3	1011_FCH7LGFCCX2_L1_BISvveXAAFEAAA-60_1	6,640,581
4	1011_FCH7LGFCCX2_L1_BISvveXAAFEAAA-60_2	6,640,581
5	1013_FCH7L2KCCX2_L6_BISvveXAABMAAA-54_1	4,214,056
6	1013_FCH7L2KCCX2_L6_BISvveXAABMAAA-54_2	4,214,056
7	101R_FCH7L2KCCX2_L5_BISvveXAAAAAAA-71_1	4,567,006
8	101R_FCH7L2KCCX2_L5_BISvveXAAAAAAA-71_2	4,567,006
9	1022_FCH7L2KCCX2_L8_BISvveXAAEGAAA-102_1	5,087,651
10	1022_FCH7L2KCCX2_L8_BISvveXAAEGAAA-102_2	5,087,651
11	1037_FCH7L2KCCX2_L6_BISvveXAABZAAA-75_1	5,686,372
12	1037_FCH7L2KCCX2_L6_BISvveXAABZAAA-75_2	5,686,372
13	103R_FCH7L2KCCX2_L6_BISvveXAABOAAA-60_1	4,123,810
14	103R_FCH7L2KCCX2_L6_BISvveXAABOAAA-60_2	4,123,810
15	1048_FCH7L2KCCX2_L5_BISvveXAAAWAAA-133_1	4,293,820
16	1048_FCH7L2KCCX2_L5_BISvveXAAAWAAA-133_2	4,293,820
17	1052_FCH7L2KCCX2_L8_BISvveXAADGAAA-52_1	4,281,182
18	1052_FCH7L2KCCX2_L8_BISvveXAADGAAA-52_2	4,281,182
19	1073_FCH7L2KCCX2_L7_BISvveXAADBAAA-40_1	3,920,646
20	1073_FCH7L2KCCX2_L7_BISvveXAADBAAA-40_2	3,920,646
21	1082_FCH7L2KCCX2_L5_BISvveXAAASAAA-111_1	4,290,587
22	1082_FCH7L2KCCX2_L5_BISvveXAAASAAA-111_2	4,290,587
23	1126_FCH7L2KCCX2_L8_BISvveXAAFMAAA-72_1	4,255,416
24	1126_FCH7L2KCCX2_L8_BISvveXAAFMAAA-72_2	4,255,416
25	1129_FCH7L2KCCX2_L5_BISvveXAABCAAA-18_1	4,672,482
26	1129_FCH7L2KCCX2_L5_BISvveXAABCAAA-18_2	4,672,482
27	1136_FCH7L2KCCX2_L6_BISvveXAABQAAA-63_1	4,283,799
28	1136_FCH7L2KCCX2_L6_BISvveXAABQAAA-63_2	4,283,799
29	1137_FCH7L2KCCX2_L5_BISvveXAABBAAA-168_1	4,771,675
30	1137_FCH7L2KCCX2_L5_BISvveXAABBAAA-168_2	4,771,675
31	1139_FCH7L2KCCX2_L6_BISvveXAACFAAA-87_1	4,491,294
32	1139_FCH7L2KCCX2_L6_BISvveXAACFAAA-87_2	4,491,294
33	1141_FCH7L2KCCX2_L7_BISvveXAACRAAA-133_1	4,971,464
34	1141_FCH7L2KCCX2_L7_BISvveXAACRAAA-133_2	4,971,464
35	1142_FCH7L2KCCX2_L5_BISvveXAAAYAAA-142_1	4,234,142
36	1142_FCH7L2KCCX2_L5_BISvveXAAAYAAA-142_2	4,234,142
37	1149_FCH7LGFCCX2_L1_BISvveXAAFDAAA-58_1	6,130,374
38	1149_FCH7LGFCCX2_L1_BISvveXAAFDAAA-58_2	6,130,374
39	1150_FCH7L2KCCX2_L5_BISvveXAAAVAAA-131_1	4,303,934
40	1150_FCH7L2KCCX2_L5_BISvveXAAAVAAA-131_2	4,303,934
41	1155_FCH7L2KCCX2_L8_BISvveXAADHAAA-54_1	3,792,913
42	1155_FCH7L2KCCX2_L8_BISvveXAADHAAA-54_2	3,792,913

43	1181_FCH7L2KCCX2_L5_BISvveXAAATAAA-113_1	4,480,784
44	1181_FCH7L2KCCX2_L5_BISvveXAAATAAA-113_2	4,480,784
45	1187_FCH7L2KCCX2_L8_BISvveXAAFIAAA-68_1	4,496,066
46	1187_FCH7L2KCCX2_L8_BISvveXAAFIAAA-68_2	4,496,066
47	1188_FCH7L2KCCX2_L5_BISvveXAAAHAAA-79_1	4,393,311
48	1188_FCH7L2KCCX2_L5_BISvveXAAAHAAA-79_2	4,393,311
49	1189_FCH7L2KCCX2_L6_BISvveXAABSAAA-68_1	4,059,795
50	1189_FCH7L2KCCX2_L6_BISvveXAABSAAA-68_2	4,059,795
51	1194_FCH7L2KCCX2_L5_BISvveXAAAXAAA-141_1	5,311,607
52	1194_FCH7L2KCCX2_L5_BISvveXAAAXAAA-141_2	5,311,607
53	11K_FCH7L2KCCX2_L8_BISvveXAAFOAAA-74_1	4,173,379
54	11K_FCH7L2KCCX2_L8_BISvveXAAFOAAA-74_2	4,173,379
55	121R_FCH7L2KCCX2_L8_BISvveXAADIAAA-58_1	3,983,443
56	121R_FCH7L2KCCX2_L8_BISvveXAADIAAA-58_2	3,983,443
57	1222_FCH7L2KCCX2_L6_BISvveXAACHAAA-93_1	6,074,837
58	1222_FCH7L2KCCX2_L6_BISvveXAACHAAA-93_2	6,074,837
59	1227_FCH7L2KCCX2_L5_BISvveXAAAIAAA-82_1	5,665,066
60	1227_FCH7L2KCCX2_L5_BISvveXAAAIAAA-82_2	5,665,066
61	1229_FCH7L2KCCX2_L8_BISvveXAAEHAAA-106_1	5,174,591
62	1229_FCH7L2KCCX2_L8_BISvveXAAEHAAA-106_2	5,174,591
63	1231_FCH7L2KCCX2_L8_BISvveXAAFTAAA-82_1	4,163,255
64	1231_FCH7L2KCCX2_L8_BISvveXAAFTAAA-82_2	4,163,255
65	1232_FCH7L2KCCX2_L8_BISvveXAAEIAAA-111_1	3,921,794
66	1232_FCH7L2KCCX2_L8_BISvveXAAEIAAA-111_2	3,921,794
67	1233_FCH7L2KCCX2_L7_BISvveXAACZAAA-35_1	4,345,604
68	1233_FCH7L2KCCX2_L7_BISvveXAACZAAA-35_2	4,345,604
69	1266_FCH7L2KCCX2_L5_BISvveXAAAJAAA-85_1	4,699,751
70	1266_FCH7L2KCCX2_L5_BISvveXAAAJAAA-85_2	4,699,751
71	1277_FCH7L2KCCX2_L6_BISvveXAABUAAA-70_1	4,173,136
72	1277_FCH7L2KCCX2_L6_BISvveXAABUAAA-70_2	4,173,136
73	1303_FCH7L2KCCX2_L5_BISvveXAAANAAA-94_1	4,076,858
74	1303_FCH7L2KCCX2_L5_BISvveXAAANAAA-94_2	4,076,858
75	1311_FCH7L2KCCX2_L3_BISvveXAAEZAAA-50_1	4,099,181
76	1311_FCH7L2KCCX2_L3_BISvveXAAEZAAA-50_2	4,099,181
77	1312_FCH7L2KCCX2_L5_BISvveXAAAQAAA-95_1	4,539,087
78	1312_FCH7L2KCCX2_L5_BISvveXAAAQAAA-95_2	4,539,087
79	1338_FCH7L2KCCX2_L5_BISvveXAAAQAAA-102_1	4,623,002
80	1338_FCH7L2KCCX2_L5_BISvveXAAAQAAA-102_2	4,623,002
81	1340_FCH7L2KCCX2_L5_BISvveXAAARAAA-106_1	5,265,721
82	1340_FCH7L2KCCX2_L5_BISvveXAAARAAA-106_2	5,265,721
83	140R_FCH7L2KCCX2_L5_BISvveXAAALAAA-91_1	4,889,412
84	140R_FCH7L2KCCX2_L5_BISvveXAAALAAA-91_2	4,889,412
85	148R_FCH7L2KCCX2_L8_BISvveXAADJAAA-60_1	3,761,499
86	148R_FCH7L2KCCX2_L8_BISvveXAADJAAA-60_2	3,761,499

87	151R_FCH7L2KCCX2_L7_BISvveXAADCAAA-43_1	4,059,345
88	151R_FCH7L2KCCX2_L7_BISvveXAADCAAA-43_2	4,059,345
89	169R_FCH7L2KCCX2_L8_BISvveXAADKAAA-61_1	4,277,295
90	169R_FCH7L2KCCX2_L8_BISvveXAADKAAA-61_2	4,277,295
91	16K_FCH7L2KCCX2_L6_BISvveXAABJAAA-50_1	4,632,970
92	16K_FCH7L2KCCX2_L6_BISvveXAABJAAA-50_2	4,632,970
93	17K_FCH7L2KCCX2_L5_BISvveXAAAZAAA-154_1	3,118,086
94	17K_FCH7L2KCCX2_L5_BISvveXAAAZAAA-154_2	3,118,086
95	21K_FCH7L2KCCX2_L8_BISvveXAAFLAAA-71_1	4,219,106
96	21K_FCH7L2KCCX2_L8_BISvveXAAFLAAA-71_2	4,219,106
97	227_FCH7L2KCCX2_L3_BISvveXAAFAAAA-51_1	4,177,213
98	227_FCH7L2KCCX2_L3_BISvveXAAFAAAA-51_2	4,177,213
99	22K_FCH7L2KCCX2_L6_BISvveXAABIAAAA-46_1	4,111,659
100	22K_FCH7L2KCCX2_L6_BISvveXAABIAAAA-46_2	4,111,659
101	23K_FCH7L2KCCX2_L7_BISvveXAACSAAA-141_1	4,919,171
102	23K_FCH7L2KCCX2_L7_BISvveXAACSAAA-141_2	4,919,171
103	24K_FCH7L2KCCX2_L6_BISvveXAABHAAA-43_1	4,421,047
104	24K_FCH7L2KCCX2_L6_BISvveXAABHAAA-43_2	4,421,047
105	25K_FCH7L2KCCX2_L6_BISvveXAABFAAA-39_1	4,887,187
106	25K_FCH7L2KCCX2_L6_BISvveXAABFAAA-39_2	4,887,187
107	26K_FCH7L2KCCX2_L6_BISvveXAABEAAA-35_1	4,281,083
108	26K_FCH7L2KCCX2_L6_BISvveXAABEAAA-35_2	4,281,083
109	27K_FCH7L2KCCX2_L7_BISvveXAACTAAA-142_1	4,955,980
110	27K_FCH7L2KCCX2_L7_BISvveXAACTAAA-142_2	4,955,980
111	28K_FCH7L2KCCX2_L7_BISvveXAACUAAA-154_1	3,703,110
112	28K_FCH7L2KCCX2_L7_BISvveXAACUAAA-154_2	3,703,110
113	29K_FCH7L2KCCX2_L5_BISvveXAAAPAAA-97_1	4,389,085
114	29K_FCH7L2KCCX2_L5_BISvveXAAAPAAA-97_2	4,389,085
115	2K_FCH7L2KCCX2_L8_BISvveXAAFNAAA-73_1	3,905,906
116	2K_FCH7L2KCCX2_L8_BISvveXAAFNAAA-73_2	3,905,906
117	303_518_FCH7L2KCCX2_L7_BISvveXAADDAAA-46_1	4,523,909
118	303_518_FCH7L2KCCX2_L7_BISvveXAADDAAA-46_2	4,523,909
119	30K_FCH7L2KCCX2_L6_BISvveXAABKAAA-51_1	5,021,751
120	30K_FCH7L2KCCX2_L6_BISvveXAABKAAA-51_2	5,021,751
121	312_FCH7LGFCCX2_L1_BISvveXAAFFAAA-61_1	6,167,039
122	312_FCH7LGFCCX2_L1_BISvveXAAFFAAA-61_2	6,167,039
123	321_FCH7L2KCCX2_L7_BISvveXAADQAAA-71_1	4,086,108
124	321_FCH7L2KCCX2_L7_BISvveXAADQAAA-71_2	4,086,108
125	323_FCH7L2KCCX2_L7_BISvveXAADRAAA-72_1	3,185,235
126	323_FCH7L2KCCX2_L7_BISvveXAADRAAA-72_2	3,185,235
127	326_FCH7L2KCCX2_L7_BISvveXAADMAAA-66_1	5,047,063
128	326_FCH7L2KCCX2_L7_BISvveXAADMAAA-66_2	5,047,063
129	331_FCH7L2KCCX2_L8_BISvveXAAEJAAA-113_1	5,454,323
130	331_FCH7L2KCCX2_L8_BISvveXAAEJAAA-113_2	5,454,323

131	334_FCH7L2KCCX2_L3_BISvveXAAEXAAA-43_1	3,811,624
132	334_FCH7L2KCCX2_L3_BISvveXAAEXAAA-43_2	3,811,624
133	336_FCH7L2KCCX2_L6_BISvveXAABWAAA-72_1	5,080,369
134	336_FCH7L2KCCX2_L6_BISvveXAABWAAA-72_2	5,080,369
135	337_FCH7LG FCCX2_L1_BISvveXAAEKAAA-130_1	6,999,509
136	337_FCH7LG FCCX2_L1_BISvveXAAEKAAA-130_2	6,999,509
137	33K_FCH7L2KCCX2_L8_BISvveXAAFSAAA-79_1	4,087,126
138	33K_FCH7L2KCCX2_L8_BISvveXAAFSAAA-79_2	4,087,126
139	340_FCH7LG FCCX2_L1_BISvveXAAELAAA-131_1	4,923,438
140	340_FCH7LG FCCX2_L1_BISvveXAAELAAA-131_2	4,923,438
141	347_FCH7L2KCCX2_L7_BISvveXAADSAAA-73_1	4,674,379
142	347_FCH7L2KCCX2_L7_BISvveXAADSAAA-73_2	4,674,379
143	361_FCH7L2KCCX2_L6_BISvveXAACKAAA-97_1	5,053,077
144	361_FCH7L2KCCX2_L6_BISvveXAACKAAA-97_2	5,053,077
145	36K_FCH7L2KCCX2_L6_BISvveXAACGAAA-91_1	4,390,001
146	36K_FCH7L2KCCX2_L6_BISvveXAACGAAA-91_2	4,390,001
147	372_FCH7L2KCCX2_L7_BISvveXAACOOAAA-113_1	4,875,492
148	372_FCH7L2KCCX2_L7_BISvveXAACOOAAA-113_2	4,875,492
149	375_FCH7L2KCCX2_L6_BISvveXAACAAAA-76_1	5,147,244
150	375_FCH7L2KCCX2_L6_BISvveXAACAAAA-76_2	5,147,244
151	379_FCH7L2KCCX2_L7_BISvveXAADXAAA-79_1	4,438,144
152	379_FCH7L2KCCX2_L7_BISvveXAADXAAA-79_2	4,438,144
153	380_FCH7L2KCCX2_L7_BISvveXAADWAAA-77_1	4,559,234
154	380_FCH7L2KCCX2_L7_BISvveXAADWAAA-77_2	4,559,234
155	397_FCH7LG FCCX2_L1_BISvveXAAEPAAA-154_1	3,867,262
156	397_FCH7LG FCCX2_L1_BISvveXAAEPAAA-154_2	3,867,262
157	400_FCH7L2KCCX2_L6_BISvveXAABVAAA-71_1	4,340,010
158	400_FCH7L2KCCX2_L6_BISvveXAABVAAA-71_2	4,340,010
159	402_BISvveX_2nd_1	3,617,029
160	402_BISvveX_2nd_2	3,617,029
161	402_FCH7L2KCCX2_L7_BISvveXAADYAAA-82_1	2,170,358
162	402_FCH7L2KCCX2_L7_BISvveXAADYAAA-82_2	2,170,358
163	405_FCH7L2KCCX2_L6_BISvveXAACDAAA-82_1	6,181,445
164	405_FCH7L2KCCX2_L6_BISvveXAACDAAA-82_2	6,181,445
165	407_FCH7L2KCCX2_L7_BISvveXAADTAAA-74_1	4,125,658
166	407_FCH7L2KCCX2_L7_BISvveXAADTAAA-74_2	4,125,658
167	408_BISvveX_2nd_1	3,435,402
168	408_BISvveX_2nd_2	3,435,402
169	408_FCH7L2KCCX2_L7_BISvveXAADZAAA-85_1	2,012,661
170	408_FCH7L2KCCX2_L7_BISvveXAADZAAA-85_2	2,012,661
171	410_FCH7LG FCCX2_L1_BISvveXAAEQAAA-158_1	4,607,257
172	410_FCH7LG FCCX2_L1_BISvveXAAEQAAA-158_2	4,607,257
173	430_BISvveX_2nd_1	3,753,151
174	430_BISvveX_2nd_2	3,753,151

175	430_FCH7L2KCCX2_L7_BISvveXAAEAAAA-87_1	2,237,745
176	430_FCH7L2KCCX2_L7_BISvveXAAEAAAA-87_2	2,237,745
177	438_FCH7L2KCCX2_L3_BISvveXAAEYAAA-46_1	3,500,150
178	438_FCH7L2KCCX2_L3_BISvveXAAEYAAA-46_2	3,500,150
179	456_FCH7LG FCCX2_L1_BISvveXAAERAAA-168_1	4,341,648
180	456_FCH7LG FCCX2_L1_BISvveXAAERAAA-168_2	4,341,648
181	45K_FCH7L2KCCX2_L8_BISvveXAAFPAAA-75_1	4,028,526
182	45K_FCH7L2KCCX2_L8_BISvveXAAFPAAA-75_2	4,028,526
183	469_FCH7L2KCCX2_L6_BISvveXAACIAAAA-94_1	4,850,951
184	469_FCH7L2KCCX2_L6_BISvveXAACIAAAA-94_2	4,850,951
185	46K_FCH7L2KCCX2_L6_BISvveXAACCAAA-79_1	5,436,402
186	46K_FCH7L2KCCX2_L6_BISvveXAACCAAA-79_2	5,436,402
187	472_FCH7LG FCCX2_L1_BISvveXAAEMAAA-133_1	5,136,321
188	472_FCH7LG FCCX2_L1_BISvveXAAEMAAA-133_2	5,136,321
189	477_FCH7L2KCCX2_L7_BISvveXAADNAAA-68_1	4,500,515
190	477_FCH7L2KCCX2_L7_BISvveXAADNAAA-68_2	4,500,515
191	478_FCH7LG FCCX2_L1_BISvveXAAENAAA-141_1	5,288,719
192	478_FCH7LG FCCX2_L1_BISvveXAAENAAA-141_2	5,288,719
193	480_FCH7LG FCCX2_L1_BISvveXAAEOAAA-142_1	4,394,496
194	480_FCH7LG FCCX2_L1_BISvveXAAEOAAA-142_2	4,394,496
195	48K_BISvveX_2nd_1	3,687,580
196	48K_BISvveX_2nd_2	3,687,580
197	48K_FCH7L2KCCX2_L7_BISvveXAAECAAA-93_1	2,177,855
198	48K_FCH7L2KCCX2_L7_BISvveXAAECAAA-93_2	2,177,855
199	4K_FCH7L2KCCX2_L6_BISvveXAABTAAA-69_1	4,191,770
200	4K_FCH7L2KCCX2_L6_BISvveXAABTAAA-69_2	4,191,770
201	505_FCH7L2KCCX2_L6_BISvveXAACNAAA-111_1	5,267,982
202	505_FCH7L2KCCX2_L6_BISvveXAACNAAA-111_2	5,267,982
203	507_FCH7L2KCCX2_L6_BISvveXAACLAAA-102_1	4,464,528
204	507_FCH7L2KCCX2_L6_BISvveXAACLAAA-102_2	4,464,528
205	509_FCH7L2KCCX2_L7_BISvveXAADOAAA-69_1	3,932,151
206	509_FCH7L2KCCX2_L7_BISvveXAADOAAA-69_2	3,932,151
207	512_FCH7LG FCCX2_L1_BISvveXAAESAAA-18_1	5,073,321
208	512_FCH7LG FCCX2_L1_BISvveXAAESAAA-18_2	5,073,321
209	516_BISvveX_2nd_1	3,002,633
210	516_BISvveX_2nd_2	3,002,633
211	516_FCH7L2KCCX2_L7_BISvveXAAEBAAA-91_1	1,777,440
212	516_FCH7L2KCCX2_L7_BISvveXAAEBAAA-91_2	1,777,440
213	521_FCH7L2KCCX2_L7_BISvveXAADEAAA-50_1	4,670,137
214	521_FCH7L2KCCX2_L7_BISvveXAADEAAA-50_2	4,670,137
215	522_FCH7L2KCCX2_L3_BISvveXAAFBAAB-52_1	4,521,879
216	522_FCH7L2KCCX2_L3_BISvveXAAFBAAB-52_2	4,521,879
217	52K_FCH7L2KCCX2_L6_BISvveXAABNAAA-58_1	4,676,747
218	52K_FCH7L2KCCX2_L6_BISvveXAABNAAA-58_2	4,676,747

219	534_FCH7L2KCCX2_L5_BISvveXAAAFAAA-76_1	4,491,117
220	534_FCH7L2KCCX2_L5_BISvveXAAAFAAA-76_2	4,491,117
221	536_FCH7L2KCCX2_L7_BISvveXAACVAAA-158_1	3,933,339
222	536_FCH7L2KCCX2_L7_BISvveXAACVAAA-158_2	3,933,339
223	543_FCH7L2KCCX2_L7_BISvveXAACQAAA-131_1	5,070,023
224	543_FCH7L2KCCX2_L7_BISvveXAACQAAA-131_2	5,070,023
225	546_FCH7L2KCCX2_L6_BISvveXAABXAAA-73_1	5,726,148
226	546_FCH7L2KCCX2_L6_BISvveXAABXAAA-73_2	5,726,148
227	56K_FCH7L2KCCX2_L7_BISvveXAACXAAA-18_1	4,776,966
228	56K_FCH7L2KCCX2_L7_BISvveXAACXAAA-18_2	4,776,966
229	593_FCH7LGFCCX2_L1_BISvveXAAFQAAA-63_1	4,538,519
230	593_FCH7LGFCCX2_L1_BISvveXAAFQAAA-63_2	4,538,519
231	5K_FCH7L2KCCX2_L7_BISvveXAACWAAA-168_1	3,900,427
232	5K_FCH7L2KCCX2_L7_BISvveXAACWAAA-168_2	3,900,427
233	601_FCH7L2KCCX2_L6_BISvveXAACBAAA-77_1	6,184,022
234	601_FCH7L2KCCX2_L6_BISvveXAACBAAA-77_2	6,184,022
235	61K_FCH7L2KCCX2_L5_BISvveXAAAUAAA-130_1	5,483,975
236	61K_FCH7L2KCCX2_L5_BISvveXAAAUAAA-130_2	5,483,975
237	63_FCH7L2KCCX2_L8_BISvveXAAFJAAA-69_1	4,080,739
238	63_FCH7L2KCCX2_L8_BISvveXAAFJAAA-69_2	4,080,739
239	641_FCH7L2KCCX2_L7_BISvveXAADUAAA-75_1	4,552,719
240	641_FCH7L2KCCX2_L7_BISvveXAADUAAA-75_2	4,552,719
241	642_FCH7L2KCCX2_L7_BISvveXAACPAAA-130_1	5,730,632
242	642_FCH7L2KCCX2_L7_BISvveXAACPAAA-130_2	5,730,632
243	659_FCH7L2KCCX2_L6_BISvveXAACMAAAA-106_1	4,916,449
244	659_FCH7L2KCCX2_L6_BISvveXAACMAAAA-106_2	4,916,449
245	672_FCH7L2KCCX2_L7_BISvveXAADVAAA-76_1	4,157,227
246	672_FCH7L2KCCX2_L7_BISvveXAADVAAA-76_2	4,157,227
247	685_FCH7L2KCCX2_L6_BISvveXAACJAAA-95_1	5,685,652
248	685_FCH7L2KCCX2_L6_BISvveXAACJAAA-95_2	5,685,652
249	68_FCH7L2KCCX2_L8_BISvveXAADLAAA-63_1	4,202,079
250	68_FCH7L2KCCX2_L8_BISvveXAADLAAA-63_2	4,202,079
251	70_FCH7LGFCCX2_L1_BISvveXAAFHAAA-66_1	4,805,164
252	70_FCH7LGFCCX2_L1_BISvveXAAFHAAA-66_2	4,805,164
253	720_FCH7L2KCCX2_L5_BISvveXAAAGAAA-77_1	5,088,054
254	720_FCH7L2KCCX2_L5_BISvveXAAAGAAA-77_2	5,088,054
255	722_FCH7L2KCCX2_L5_BISvveXAAAMAAA-93_1	5,231,950
256	722_FCH7L2KCCX2_L5_BISvveXAAAMAAA-93_2	5,231,950
257	723_FCH7L2KCCX2_L5_BISvveXAAADAAA-74_1	5,003,475
258	723_FCH7L2KCCX2_L5_BISvveXAAADAAA-74_2	5,003,475
259	724_FCH7L2KCCX2_L5_BISvveXAAACAAA-73_1	6,228,515
260	724_FCH7L2KCCX2_L5_BISvveXAAACAAA-73_2	6,228,515
261	726_FCH7L2KCCX2_L5_BISvveXAAAKAAA-87_1	4,070,013
262	726_FCH7L2KCCX2_L5_BISvveXAAAKAAA-87_2	4,070,013

263	77R_FCH7L2KCCX2_L5_BISvveXAABDAAA-26_1	3,960,091
264	77R_FCH7L2KCCX2_L5_BISvveXAABDAAA-26_2	3,960,091
265	78R_FCH7L2KCCX2_L6_BISvveXAABYAAA-74_1	4,867,688
266	78R_FCH7L2KCCX2_L6_BISvveXAABYAAA-74_2	4,867,688
267	79R_FCH7L2KCCX2_L6_BISvveXAACEAAA-85_1	5,141,218
268	79R_FCH7L2KCCX2_L6_BISvveXAACEAAA-85_2	5,141,218
269	803_FCH7L2KCCX2_L7_BISvveXAACYAAA-26_1	3,885,224
270	803_FCH7L2KCCX2_L7_BISvveXAACYAAA-26_2	3,885,224
271	812_FCH7L2KCCX2_L6_BISvveXAABLAAA-52_1	4,115,193
272	812_FCH7L2KCCX2_L6_BISvveXAABLAAA-52_2	4,115,193
273	816_FCH7L2KCCX2_L5_BISvveXAAAEAAA-75_1	5,347,366
274	816_FCH7L2KCCX2_L5_BISvveXAAAEAAA-75_2	5,347,366
275	819_FCH7L2KCCX2_L8_BISvveXAAFQAAA-76_1	3,655,568
276	819_FCH7L2KCCX2_L8_BISvveXAAFQAAA-76_2	3,655,568
277	826_FCH7L2KCCX2_L8_BISvveXAAFKAAA-70_1	4,946,358
278	826_FCH7L2KCCX2_L8_BISvveXAAFKAAA-70_2	4,946,358
279	828_BISvveX_2nd_1	3,353,239
280	828_BISvveX_2nd_2	3,353,239
281	828_FCH7L2KCCX2_L7_BISvveXAAEDAAA-94_1	2,005,624
282	828_FCH7L2KCCX2_L7_BISvveXAAEDAAA-94_2	2,005,624
283	834_FCH7L2KCCX2_L5_BISvveXAAABAAA-72_1	4,458,411
284	834_FCH7L2KCCX2_L5_BISvveXAAABAAA-72_2	4,458,411
285	835_FCH7L2KCCX2_L8_BISvveXAAFRAAA-77_1	4,895,073
286	835_FCH7L2KCCX2_L8_BISvveXAAFRAAA-77_2	4,895,073
287	836_FCH7L2KCCX2_L7_BISvveXAADPAAA-70_1	4,193,537
288	836_FCH7L2KCCX2_L7_BISvveXAADPAAA-70_2	4,193,537
289	862_FCH7L2KCCX2_L5_BISvveXAABAAAA-158_1	4,958,592
290	862_FCH7L2KCCX2_L5_BISvveXAABAAAA-158_2	4,958,592
291	88R_FCH7L2KCCX2_L6_BISvveXAABRAAA-66_1	4,192,143
292	88R_FCH7L2KCCX2_L6_BISvveXAABRAAA-66_2	4,192,143
293	894_FCH7L2KCCX2_L7_BISvveXAADFAAA-51_1	3,913,836
294	894_FCH7L2KCCX2_L7_BISvveXAADFAAA-51_2	3,913,836
295	905_FCH7LGFCCX2_L1_BISvveXAAETAAA-26_1	4,674,582
296	905_FCH7LGFCCX2_L1_BISvveXAAETAAA-26_2	4,674,582
297	906_FCH7LGFCCX2_L1_BISvveXAAFCAAA-54_1	4,939,805
298	906_FCH7LGFCCX2_L1_BISvveXAAFCAAA-54_2	4,939,805
299	913_FCH7LGFCCX2_L1_BISvveXAAEUAAA-35_1	5,011,469
300	913_FCH7LGFCCX2_L1_BISvveXAAEUAAA-35_2	5,011,469
301	918_FCH7LGFCCX2_L1_BISvveXAAEVA AAA-39_1	4,280,217
302	918_FCH7LGFCCX2_L1_BISvveXAAEVA AAA-39_2	4,280,217
303	919_FCH7L2KCCX2_L3_BISvveXAAEWAAA-40_1	4,008,275
304	919_FCH7L2KCCX2_L3_BISvveXAAEWAAA-40_2	4,008,275
305	933_FCH7L2KCCX2_L6_BISvveXAABGAAA-40_1	4,023,999
306	933_FCH7L2KCCX2_L6_BISvveXAABGAAA-40_2	4,023,999

307	934_FCH7L2KCCX2_L6_BISvveXAABPAAA-61_1	4,742,662
308	934_FCH7L2KCCX2_L6_BISvveXAABPAAA-61_2	4,742,662
309	993_FCH7L2KCCX2_L7_BISvveXAADAAAA-39_1	4,132,409
310	993_FCH7L2KCCX2_L7_BISvveXAADAAAA-39_2	4,132,409
311	994_FCH7L2KCCX2_L8_BISvveXAAEEAAA-95_1	3,807,031
312	994_FCH7L2KCCX2_L8_BISvveXAAEEAAA-95_2	3,807,031
Total		1,396,541,116
Min		1,777,440
Max		6,999,509
Average		4,476,093
Stddev		829,788
median		4,448,277
Q1 (Quartile 1)		4,079,769
Q3 (Quartile 3)		4,948,764
IQR (Interquartile)		868,995

Table S2. 74 Target IDs resolved to 74 targets comprising 74 regions.

	Target ID	Interval	Coverage
1	DAZL	chr1:153640073-153663068	79.76
2	TSPYL1	chr9:34430225-34433483	65.23
3	B3GAT2	chr9:9975342-10070046	60.41
4	COG6	chr12:22698524-22753083	80.57
5	LHFPL6	chr12:22796974-23004524	86.24
6	NHLRC3	chr12:23210981-23219151	87.24
7	STOML3	chr12:23258106-23284263	88.74
8	UFM1	chr12:23680672-23695013	80.35
9	SOX21	chr12:69200713-69204003	100.00
10	CHGB	chr13:48069203-48084157	38.10
11	TRMT6	chr13:48110221-48120755	79.84
12	MCM8	chr13:48123959-48166976	74.56
13	CRLS1	chr13:48187038-48209808	88.48

14	FERMT1	chr13:48251376-48300352	68.95
15	BMP2	chr13:49152164-49163417	61.83
16	RIC3	chr15:44368150-44429697	76.68
17	TUB	chr15:44437019-44457846	95.31
18	OLFML1	chr15:45220566-45250906	55.03
19	RBMXL2	chr15:45656005-45657566	100.00
20	ZNF215	chr15:45761708-45781946	96.23
21	OR2AG1	chr15:46052184-46053127	100.00
22	TIMM10B	chr15:46565732-46566633	61.86
23	ARFIP2	chr15:46566808-46571924	30.27
24	TRIM3	chr15:46574142-46599872	59.22
25	HPX HX	chr15:46606399-46615970	69.00
26	APBB1	chr15:46626353-46648788	87.16
27	SMPD1	chr15:46648922-46653387	26.09
28	CAVIN3	chr15:46710951-46712570	77.72
29	CCKBR	chr15:46765407-46776249	50.61
30	FAM160A2*	chr15:46801513-46827699	66.4
31	TRIM6- TRIM34	chr15:47865544-47936649	59.51
32	TRIM6	chr15:47918491-47937157	47.13
33	UBQLN3	chr15:48059199-48061840	100.00
34	HBE4	chr15:48346375-48347928	100.00
35	HBB	chr15:48362355-48363996	71.92
36	HBE2	chr15:48388424-48389834	100.00

37	RPS4Y1	chr23:10550056-10565808	96.63
38	ADCY9	chr25:3246845-3348679	89.37
39	TFAP4	chr25:3443803-3455921	92.79
40	GLIS2	chr25:3497843-3504209	99.34
41	CORO7	chr25:3512858-3565912	96.81
42	VASN	chr25:3526091-3536775	100.00
43	DNAJA3	chr25:3574542-3605780	90.77
44	NMRAL1	chr25:3608221-3614096	56.16
45	HMOX2	chr25:3626013-3654156	88.96
46	CDIP1	chr25:3654954-3678497	73.01
47	UBALD1	chr25:3744499-3749423	98.82
48	MGRN1	chr25:3755153-3791830	97.24
59	NUDT16L1	chr25:3802894-3810589	100.00
50	ANKS3	chr25:3805609-3820247	97.25
51	ZNF500	chr25:3839451-3841411	100.00
52	SEPT12	chr25:3856460-3868939	22.75
53	ROGDI	chr25:3876450-3882213	45.51
54	GLYR1	chr25:3882639-3914409	88.65
55	UBN1	chr25:3918641-3946384	99.01
56	SEC14L5	chr25:4015614-4052072	78.78
57	NAGPA	chr25:4059673-4068402	86.44
58	ALG1	chr25:4088138-4103061	89.94
59	RBFOX1	chr25:5371120-6637687	83.34
60	SLC25A6	chr26:15191008-15195490	97.57

61	CFAP43	chr26:24695461-24795192	84.11
62	SORCS3	chr26:25203124-26182512	82.48
63	LRRN4	chr29:41013305-41015955	89.89
64	EIF1AX	chrX:123062871-123072702	47.44
65	SHROOM2	chrX:133141117-133282727	95.78
66	GPR143	chrX:133303495-133333183	92.69
67	STS	chrX:135464892-135604029	79.89
68	PRKX	chrX:138331643-138389802	79.54
69	CD99	chrX:138754709-138784885	59.41
70	XLA	chrX:50826843-50860745	51.46
71	ATP7A	chrX:74365048-74435545	56.59
72	RPS4X	chrX:78400273-78404695	74.11
73	RBM10	chrX:85531720-85557443	26.14
74	UBA1	chrX:85568205-85586824	86.70

Footnote:- The LOC616948 gene is also found in this region (chr15:46801513-46827699).

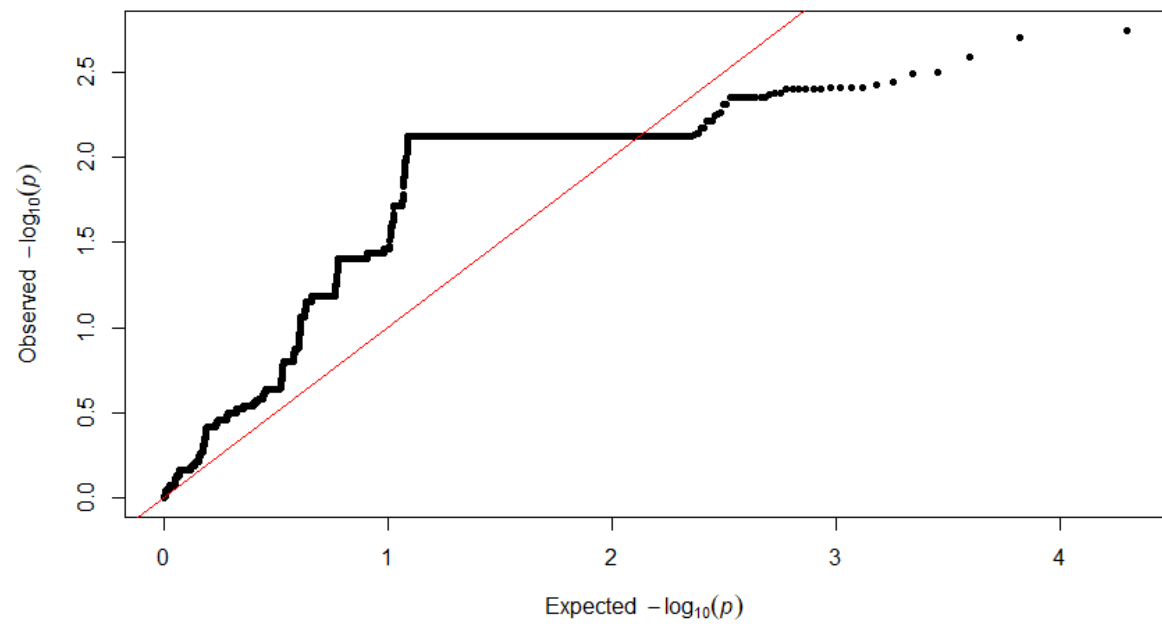


Figure S1. QQ plot of observed $-\log_{10} p$ values vs expected $-\log_{10} p$ values for 9,934 SNPs of a Genome wide association study (GWAS) on *posthitis* disease in 126 European Bison males