



# Sequencing Data Report

Project: F24A430001331-01\_MUSbyvzR

Date: 2025.2.27

Note: For Research Use Only.



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## Data Statistics

Raw reads produced from sequencer contain adapters, unknown or low quality bases.

There are 130 samples in this project, the statistics of fastq data is shown below.

Sample	Length	Q20(%)	Q30(%)	GC Content(%)	Total Reads	Total Bases
10_P57_SIRT3p12_ODOX	150;150	96.19;97.98	88.63;93.31	35.42;35.76	10,553,501	3,166,050,300
11_A1	150;150	96.37;97.37	88.90;90.93	43.07;43.04	50,233,063	15,069,918,900
11_A2	150;150	96.92;96.73	90.44;88.87	44.34;44.32	30,292,354	9,087,706,200
11_C1	150;150	97.34;97.31	91.63;90.76	43.81;43.70	54,958,408	16,487,522,400
11_C2	150;150	96.58;97.23	89.50;90.49	43.55;43.57	41,925,651	12,577,695,300
11_P57_SIRT3p16_1DOX	150;150	95.99;97.99	88.13;93.26	35.20;35.09	9,324,439	2,797,331,700
12_P57_SIRT3p16_ODOX	150;150	96.07;97.96	88.31;93.17	34.75;35.14	11,913,886	3,574,165,800
13_P57_SIRT6p12_1DOX	150;150	95.93;97.80	88.03;92.68	35.98;35.39	8,188,051	2,456,415,300
14_P57_SIRT6p12_01DOX	150;150	95.80;97.89	87.53;92.90	35.09;35.18	7,830,229	2,349,068,700
15_P57_SIRT6p12_ODOX	150;150	96.34;97.95	89.08;93.26	36.08;35.90	10,269,085	3,080,725,500
16_P57_SIRT6p16_01DOX	150;150	96.04;97.94	88.26;93.08	34.73;34.88	9,870,799	2,961,239,700
17_P57_SIRT6p16_ODOX	150;150	96.30;98.01	88.91;93.41	35.65;35.72	11,805,697	3,541,709,100
18_P57_GFP_p16_ODOX	150;150	95.31;97.80	86.32;92.58	33.88;34.07	7,181,473	2,154,441,900
19_wjR2_sh62_p14	150;150	96.06;97.99	88.18;93.29	34.96;35.57	8,916,210	2,674,863,000
1_P57_GFPp12_1DOX	150;150	96.47;98.04	89.43;93.62	36.88;37.08	11,713,982	3,514,194,600
20_wjR2_scRNA_p14	150;150	96.33;98.03	88.98;93.49	34.81;35.25	8,807,751	2,642,325,300
21_P57_p2	150;150	96.03;98.00	88.10;93.24	34.72;34.72	1,722,292	516,687,600
22_P57_p5	150;150	96.31;98.11	88.91;93.69	35.42;35.57	2,524,397	757,319,100
2323	150;150	97.85;98.80	93.15;95.91	45.34;45.51	7,140,560	2,142,168,000
23_P57_p9	150;150	95.73;97.85	87.21;92.68	34.85;34.78	1,910,876	573,262,800
24_24_n57_p15	150;150	96.04;97.99	88.16;93.15	34.94;34.53	2,152,712	645,813,600
2963	150;150	96.62;97.34	89.39;90.84	43.78;43.78	1,153,227	345,968,100
2_P57_GFPp12_01DOX	150;150	96.53;98.10	89.63;93.77	36.73;36.86	13,743,157	4,122,947,100
3_P57_GFPp12_ODOX	150;150	96.60;98.03	89.84;93.67	37.08;37.30	12,531,173	3,759,351,900
4_P57_SIRT1p12_1DOX	150;150	96.50;98.10	89.58;93.78	36.12;36.27	12,278,559	3,683,567,700
5045	150;150	97.85;98.32	93.06;94.20	45.15;45.24	3,723,224	1,116,967,200

## Data Statistics

5555	150;150	96.89;98.26	90.24;94.06	45.15;45.23	2,816,331	844,899,300
5_P57_SIRT1p12_01DOX	150;150	96.35;98.00	89.06;93.43	36.28;36.47	10,681,893	3,204,567,900
6921	150;150	97.03;97.75	90.63;92.20	44.18;44.18	1,707,181	512,154,300
6_P57_SIRT1p12_0DOX	150;150	96.66;98.09	90.02;93.79	36.53;36.67	12,240,908	3,672,272,400
7119	150;150	97.54;97.91	92.11;92.76	44.85;44.91	2,680,373	804,111,900
7210	150;150	98.01;98.40	93.58;94.51	46.42;46.43	6,366,676	1,910,002,800
7348	150;150	96.46;97.34	88.98;90.81	44.18;44.15	643,440	193,032,000
74C_R3	150;150	96.31;95.58	87.59;83.63	43.25;43.28	10,653,868	3,196,160,400
74T_R2	150;150	96.92;96.32	90.10;87.16	42.85;42.89	65,730,280	19,719,084,000
74T_R3	150;150	96.34;95.16	88.35;83.16	43.50;43.47	12,752,763	3,825,828,900
7_A1	150;150	96.56;96.96	89.53;89.72	45.32;45.27	35,315,124	10,594,537,200
7_A2	150;150	96.91;97.00	90.40;89.72	44.17;44.14	49,791,914	14,937,574,200
7_C1	150;150	96.88;97.07	90.34;89.93	43.14;43.12	36,780,834	11,034,250,200
7_C2	150;150	96.59;96.71	89.49;88.76	44.11;44.10	28,224,507	8,467,352,100
7_P57_SIRT1p16_01DOX	150;150	96.37;97.97	89.22;93.36	35.44;35.56	13,536,657	4,060,997,100
87C	150;150	98.40;98.87	94.55;95.95	46.90;46.94	98,577,419	29,573,225,700
87C_R5	150;150	96.70;95.36	89.37;83.99	43.99;43.98	23,329,083	6,998,724,900
87T	150;150	98.01;98.60	93.61;95.22	46.24;46.06	41,617,468	12,485,240,400
87T_R5	150;150	96.78;96.38	89.70;87.33	43.04;43.01	48,604,803	14,581,440,900
8_P57_SIRT1p16_0DOX	150;150	96.22;98.02	88.75;93.40	34.72;35.10	10,200,887	3,060,266,100
9_P57_SIRT3p12_1DOX	150;150	95.97;98.06	88.04;93.48	35.40;35.51	8,689,626	2,606,887,800
Ani_e	150;150	97.82;98.15	92.98;93.55	43.84;43.94	12,463,091	3,738,927,300
Bag1_K	150;150	98.10;98.03	93.95;93.21	54.15;54.05	20,367,699	6,110,309,700
Chal2_e	150;150	98.00;98.33	93.71;94.36	42.89;42.98	12,307,075	3,692,122,500
Chal_K1	150;150	97.59;97.64	91.78;91.33	45.29;45.33	5,715,163	1,714,548,900
Chal_K2	150;150	97.43;97.22	91.12;89.64	42.83;42.88	4,887,207	1,466,162,100
Chal_e	150;150	97.28;97.74	90.78;91.52	42.54;42.63	10,812,492	3,243,747,600
Dik_K2	150;150	97.44;97.24	91.74;90.32	45.02;45.02	14,064,935	4,219,480,500
Fisher1_K	150;150	97.61;98.24	92.84;94.48	41.70;41.71	31,716,347	9,514,904,100
K13	150;150	97.28;96.56	90.54;87.19	42.56;42.65	3,395,226	1,018,567,800
MSQ43_H2A199Ub_r1	150;150	98.13;98.18	94.06;93.46	47.26;47.43	7,543,797	2,263,139,100
MSQ43_H3K27Ac_r1	150;150	97.67;97.55	92.70;91.52	46.75;46.86	5,889,591	1,766,877,300

## Data Statistics

MSQ43_H3K27Ac_r2	150;150	97.66;97.37	92.55;90.34	47.42;47.46	4,520,812	1,356,243,600
MSQ43_H3K27me3_r1	150;150	98.04;98.53	93.40;94.69	47.42;47.38	11,891,825	3,567,547,500
MSQ43_H3K27me3_r1_i	150;150	97.88;98.44	93.42;94.67	46.04;46.02	22,727,913	6,818,373,900
MSQ43_H3K27me3_r2	150;150	97.51;97.62	92.26;91.87	45.22;45.27	6,555,211	1,966,563,300
MSQ43_H3K9me3_r1	150;150	98.41;98.66	94.96;95.43	45.89;46.03	20,656,658	6,196,997,400
MSQ43_H3K9me3_r1_i	150;150	97.84;97.83	93.13;92.10	47.04;46.86	24,846,726	7,454,017,800
MSQ43_H3K9me3_r2	150;150	98.24;98.60	94.49;95.26	45.81;45.64	12,097,234	3,629,170,200
Mar1_K	150;150	97.19;96.73	90.87;88.67	42.89;42.94	4,611,877	1,383,563,100
MoPh11_H2A199Ub_r1	150;150	97.69;97.85	92.75;92.16	44.32;44.61	22,113,205	6,633,961,500
MoPh11_H3K27Ac_r1	150;150	98.00;98.29	93.75;94.20	43.85;44.00	10,242,271	3,072,681,300
MoPh11_H3K27Ac_r2	150;150	97.42;98.15	92.06;93.73	44.11;44.22	11,518,851	3,455,655,300
MoPh11_H3K27me3_r1	150;150	97.87;98.47	92.78;94.48	43.91;43.99	29,219,343	8,765,802,900
MoPh11_H3K27me3_r1_i	150;150	97.69;98.20	92.93;93.93	44.40;44.46	12,230,861	3,669,258,300
MoPh11_H3K27me3_r2	150;150	97.77;98.34	92.54;93.97	43.53;43.52	34,136,440	10,240,932,000
MoPh11_H3K9me3_r1	150;150	97.94;98.47	93.62;94.73	42.03;42.20	18,933,445	5,680,033,500
MoPh11_H3K9me3_r1_i	150;150	97.54;98.13	92.49;93.61	42.69;42.84	11,538,367	3,461,510,100
MoPh14_H2A199Ub_r1	150;150	97.65;97.73	92.58;91.69	45.07;45.01	9,809,295	2,942,788,500
MoPh14_H3K27Ac_r1	150;150	97.90;97.94	93.45;93.01	45.09;45.19	7,410,965	2,223,289,500
MoPh14_H3K27Ac_r2	150;150	97.48;98.00	92.29;93.26	44.31;44.42	13,484,161	4,045,248,300
MoPh14_H3K27me3_r1	150;150	97.86;98.14	92.79;93.21	47.92;47.87	50,319,655	15,095,896,500
MoPh14_H3K27me3_r1_i	150;150	97.33;97.59	91.94;91.95	46.53;46.58	4,614,026	1,384,207,800
MoPh14_H3K27me3_r2	150;150	97.53;98.27	91.75;93.67	47.28;47.47	16,014,387	4,804,316,100
MoPh14_H3K9me3_r1	150;150	97.79;98.21	93.10;93.84	43.42;43.73	18,763,117	5,628,935,100
MoPh14_H3K9me3_r1_i	150;150	97.53;97.39	92.26;90.50	44.59;44.77	4,501,221	1,350,366,300
MoPh15_H2A199Ub_r1	150;150	97.97;98.39	93.60;94.12	44.99;45.11	25,750,951	7,725,285,300
MoPh15_H3K27Ac_r1	150;150	98.21;98.62	94.44;95.34	44.43;44.33	41,286,565	12,385,969,500
MoPh15_H3K27Ac_r2	150;150	97.71;98.59	92.93;95.25	43.58;43.86	18,722,570	5,616,771,000
MoPh15_H3K27me3_r1	150;150	97.63;98.15	92.06;93.21	45.92;45.88	11,143,305	3,342,991,500
MoPh15_H3K27me3_r1_i	150;150	97.13;97.74	91.32;92.20	43.32;43.37	6,154,073	1,846,221,900
MoPh15_H3K27me3_r2	150;150	97.46;98.13	91.55;93.17	45.21;45.13	15,357,501	4,607,250,300
MoPh15_H3K9me3_r1	150;150	97.78;98.78	93.11;95.80	43.00;42.85	38,680,361	11,604,108,300

## Data Statistics

MoPh15_H3K9me3_r1_i	150;150	97.62;98.17	92.59;93.30	44.14;44.30	14,227,669	4,268,300,700
MoPh7_H2A199Ub_r1	150;150	96.31;98.11	88.78;93.07	45.03;45.06	12,965,414	3,889,624,200
MoPh7_H3K27Ac_r1	150;150	98.16;98.56	94.30;95.24	45.43;45.43	25,799,192	7,739,757,600
MoPh7_H3K27Ac_r2	150;150	98.05;98.35	93.92;94.44	44.45;44.51	16,555,742	4,966,722,600
MoPh7_H3K27me3_r1	150;150	97.18;98.67	90.77;95.21	44.33;44.39	26,511,132	7,953,339,600
MoPh7_H3K27me3_r1_i	150;150	97.49;98.02	92.34;93.35	44.39;44.38	8,929,756	2,678,926,800
MoPh7_H3K27me3_r2	150;150	98.05;98.67	93.44;95.24	44.29;44.50	18,588,146	5,576,443,800
MoPh7_H3K9me3_r1	150;150	97.34;98.12	91.77;93.42	41.81;41.89	9,722,627	2,916,788,100
MoPh7_H3K9me3_r1_i	150;150	97.74;98.39	93.13;94.66	44.55;44.65	9,065,859	2,719,757,700
NPC_63-1C16_1	150;150	98.89;98.80	96.35;96.47	55.02;55.33	1,126,491	337,947,300
NPC_63-1C16_2	150;150	98.52;97.62	95.34;92.84	59.22;64.22	473,801	142,140,300
NPC_63-1C21_1	150;150	98.68;98.86	95.68;96.60	55.28;55.65	678,652	203,595,600
NPC_63-1C21_2	150;150	98.39;97.64	94.97;92.91	59.15;64.61	186,805	56,041,500
NPC_63-2A24_1	150;150	98.52;98.59	95.13;95.83	56.09;56.05	1,185,856	355,756,800
NPC_63-2A24_2	150;150	98.42;97.42	95.08;92.35	60.58;65.03	361,151	108,345,300
NPC_63-2A25_1	150;150	99.08;98.62	97.01;96.01	55.93;56.02	933,759	280,127,700
NPC_63-2A25_2	150;150	98.39;97.32	95.01;92.15	60.55;65.02	357,601	107,280,300
NPC_63-2A30_1	150;150	98.83;98.90	96.20;96.72	54.84;55.54	577,007	173,102,100
NPC_63-2A30_2	150;150	98.42;97.62	95.03;92.84	57.57;64.95	231,592	69,477,600
NPC_63-2A32_1	150;150	98.85;98.75	96.23;96.29	55.38;55.62	720,798	216,239,400
NPC_63-2A32_2	150;150	98.40;97.75	95.03;93.14	60.14;64.44	252,314	75,694,200
NPC_63-2C13_1	150;150	99.17;98.69	97.24;96.18	55.32;55.67	692,336	207,700,800
NPC_63-2C13_2	150;150	98.40;97.66	95.03;92.87	60.25;64.88	351,743	105,522,900
NPC_63-2C19_1	150;150	98.68;98.78	95.68;96.37	54.98;55.50	495,504	148,651,200
NPC_63-2C19_2	150;150	98.21;97.51	94.47;92.59	58.92;64.61	132,822	39,846,600
Vla4_K	150;150	97.23;97.56	91.17;91.40	43.80;43.87	8,049,807	2,414,942,100
Vla7_K	150;150	97.88;97.88	93.18;92.63	44.67;44.97	8,782,869	2,634,860,700
Zap_K2	150;150	97.36;97.26	91.74;90.41	42.11;42.27	2,585,421	775,626,300
Zap_e3	150;150	97.45;97.30	92.02;90.60	41.95;42.17	3,213,467	964,040,100
iP63-1C16_1	150;150	99.02;98.81	96.82;96.53	55.24;55.37	670,647	201,194,100
iP63-1C16_2	150;150	98.40;97.60	95.02;92.78	59.16;64.29	239,074	71,722,200

Data Statistics						
iP63-1C5_1	150;150	98.79;98.40	95.96;95.32	55.59;55.74	309,298	92,789,400
iP63-1C5_2	150;150	98.40;97.37	95.03;92.22	61.10;64.34	130,015	39,004,500
iP63-2A30_1	150;150	98.91;98.95	96.47;96.84	54.81;55.34	345,717	103,715,100
iP63-2A30_2	150;150	98.44;97.84	95.09;93.35	57.42;64.40	138,554	41,566,200
iP63-2A32_1	150;150	99.04;98.47	96.81;95.55	55.69;55.88	486,017	145,805,100
iP63-2A32_2	150;150	98.45;97.59	95.19;92.69	61.20;64.65	204,585	61,375,500
iP63-2C19_1	150;150	98.95;98.51	96.51;95.57	56.29;56.01	793,137	237,941,100
iP63-2C19_2	150;150	98.39;97.58	95.00;92.67	61.80;64.71	389,398	116,819,400
iP63-2C13_1	150;150	99.26;98.45	97.54;95.49	55.89;56.14	993,711	298,113,300
iP63-2C13_2	150;150	98.49;97.59	95.29;92.70	61.81;64.74	450,634	135,190,200

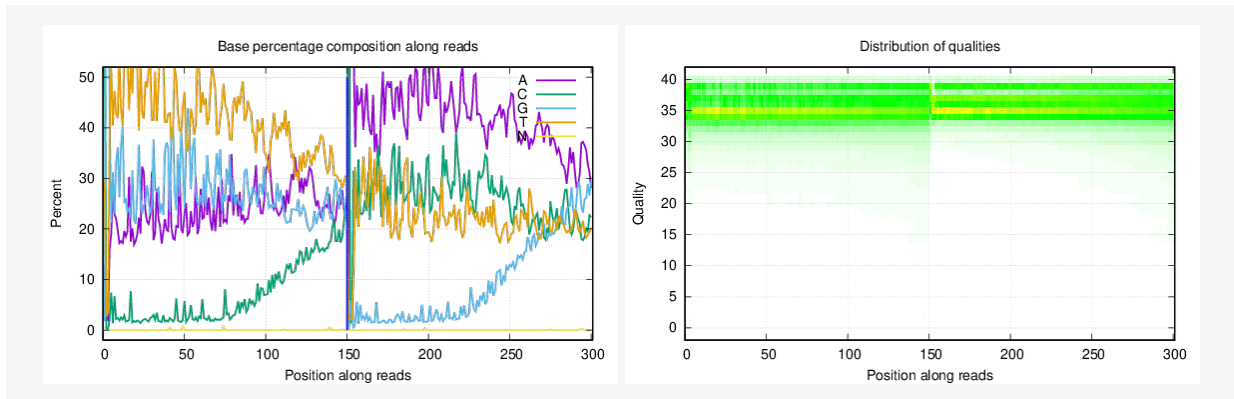
Table Format:

1. Sample: The name of sample
2. Length: The Length of reads
3. Q20 (%): The proportion of nucleotides with quality value larger than 20
4. Q30 (%): The proportion of nucleotides with quality value larger than 30
5. GC Content(%): The proportion of bases G and C
6. Total Reads: The total number of read pairs
7. Total Bases: The total nucleotides number of reads

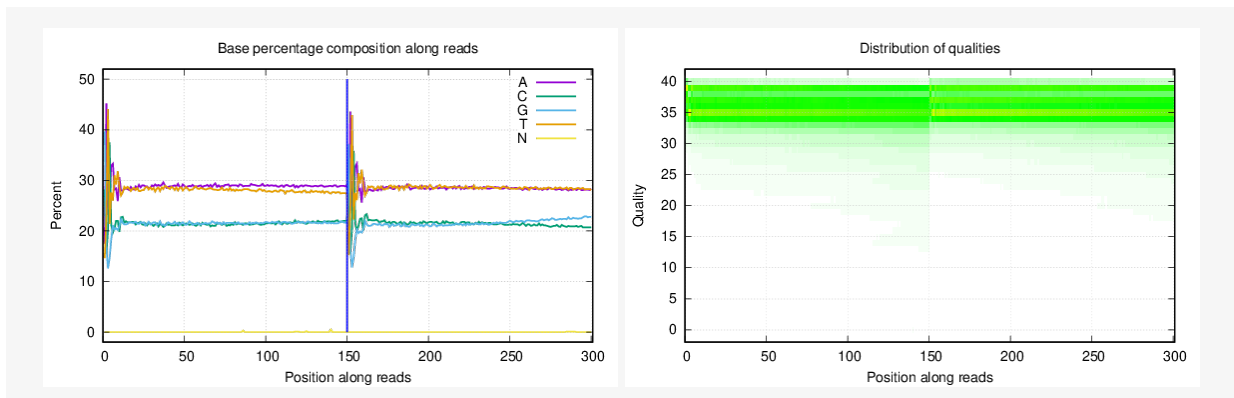
## Data Quality Control

The distribution of base percentage and qualities along reads in data filtering are shown as following(If a sample has multiple lanes, only one of them will be displayed). The left picture is base percentage distribution along reads the sample, the right picture is distribution of qualities along reads of the sample.

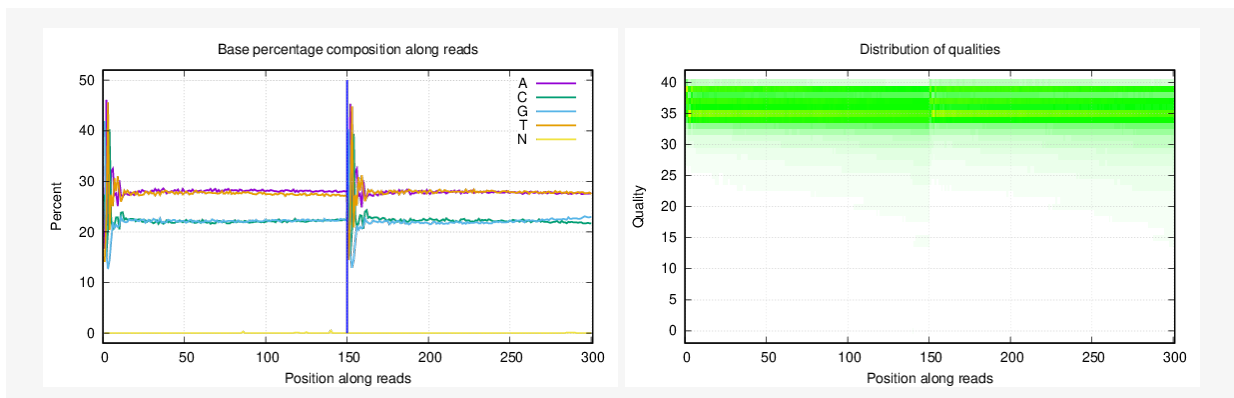
10\_P57\_SIRT3p12\_0DOX



11\_A1

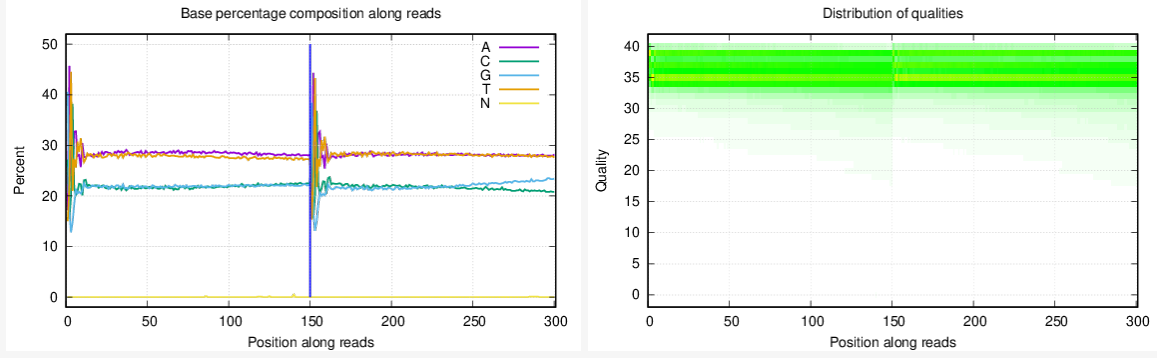


11\_A2

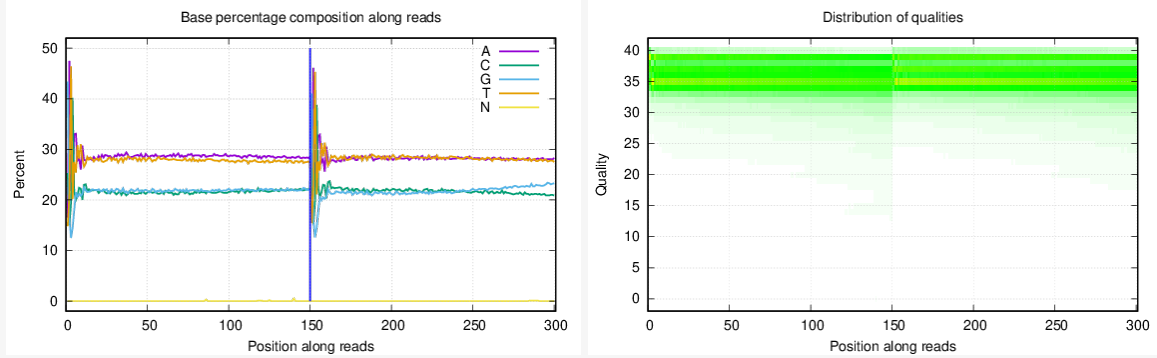


11\_C1

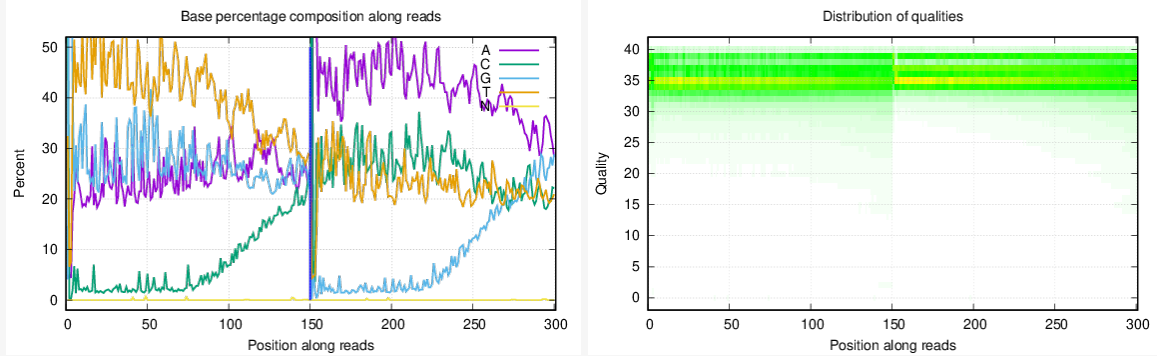




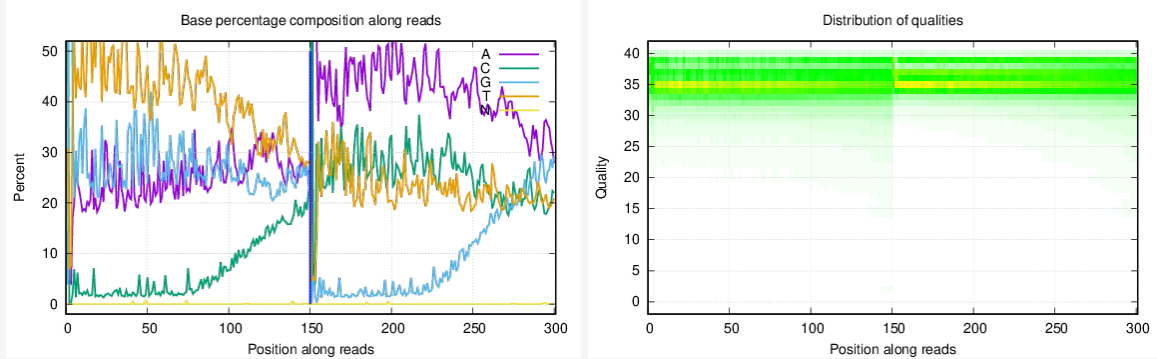
11\_C2



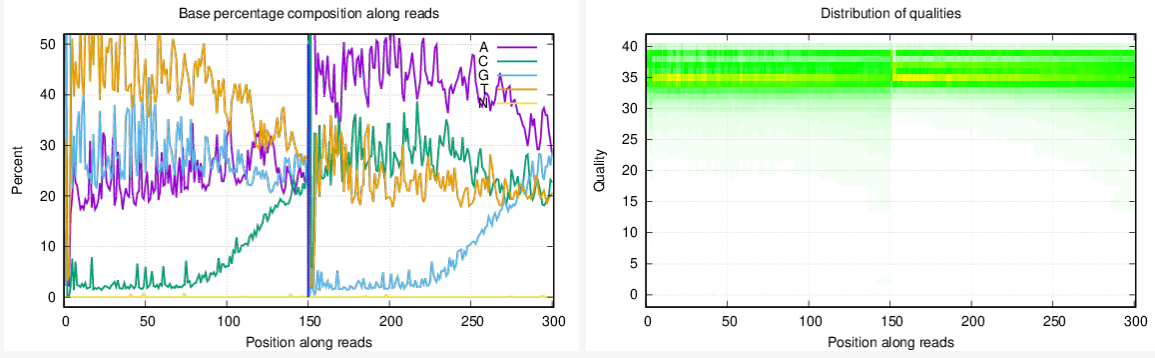
11\_P57\_SIRT3p16\_1DOX



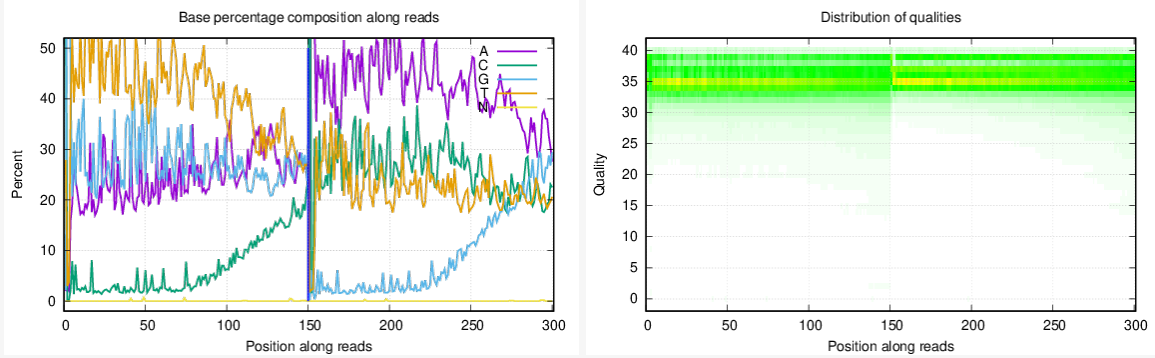
12\_P57\_SIRT3p16\_0DOX



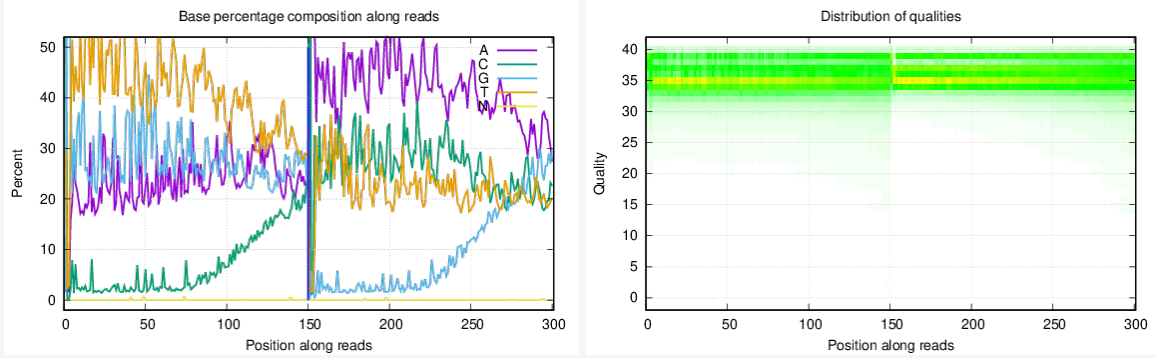
13\_P57\_SIRT6p12\_1DOX



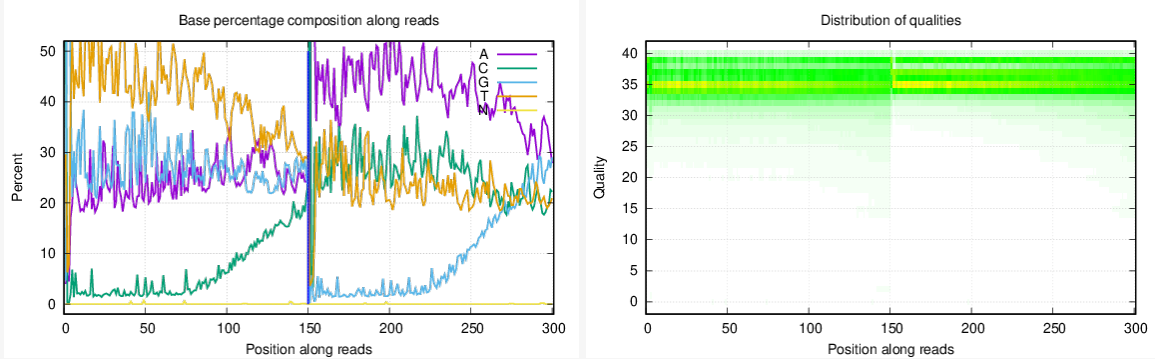
14\_P57\_SIRT6p12\_01DOX



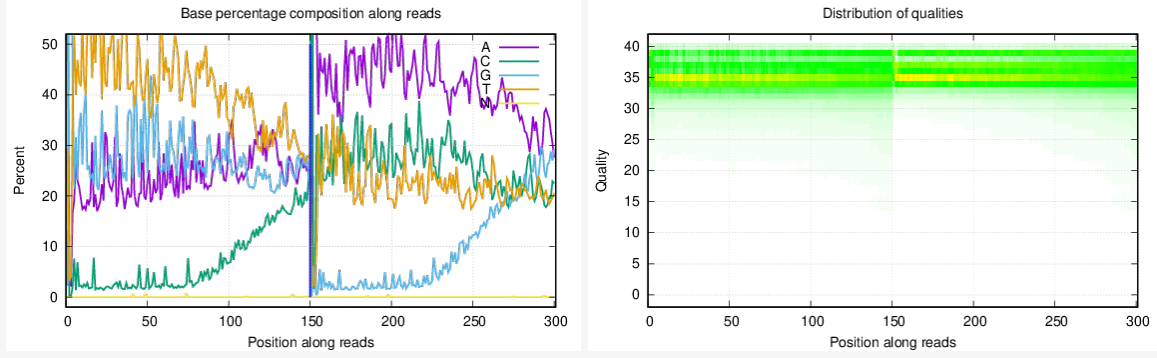
15\_P57\_SIRT6p12\_0DOX



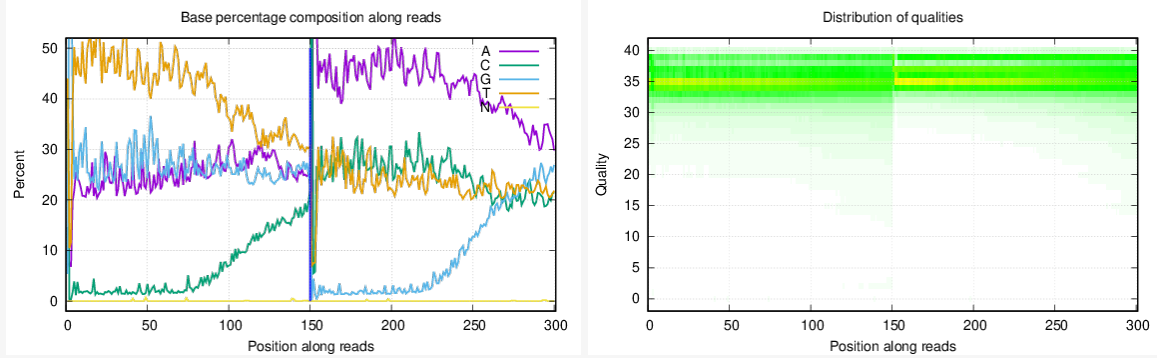
16\_P57\_SIRT6p16\_01DOX



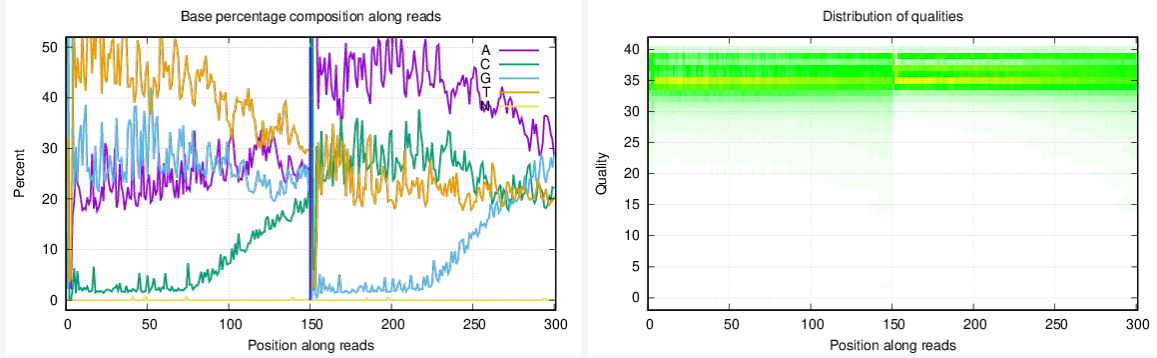
17\_P57\_SIRT6p16\_0DOX



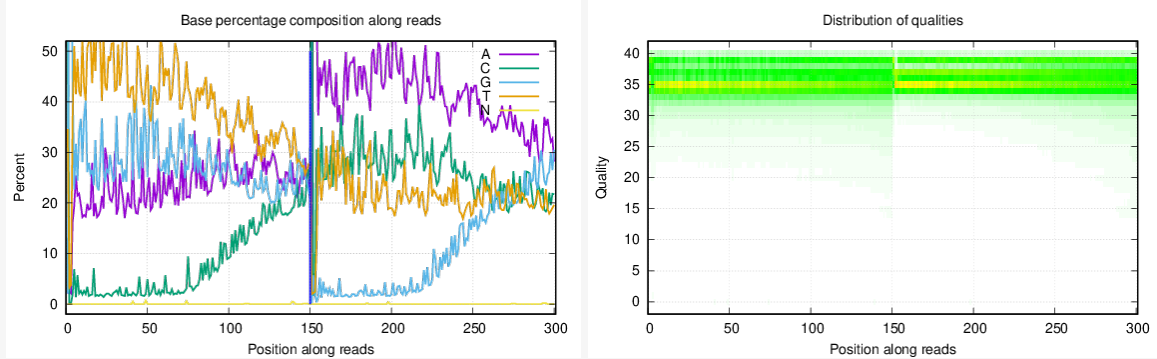
18\_P57\_GFP\_p16\_ODOX



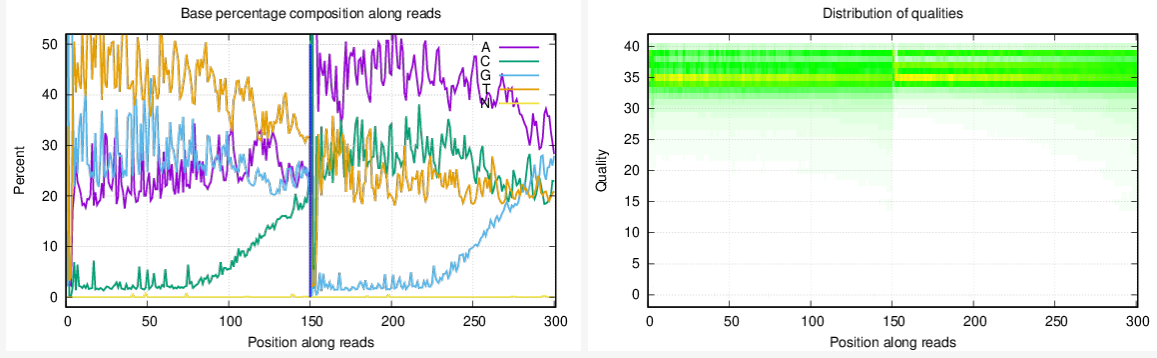
19\_wjR2\_sh62\_p14



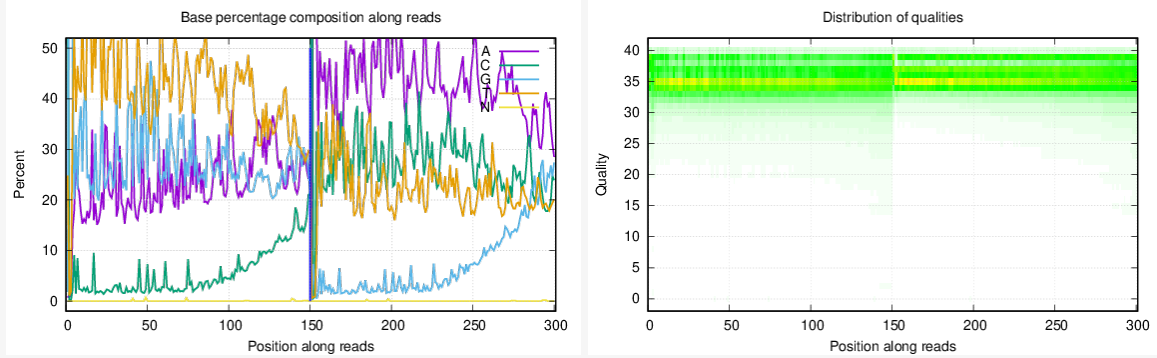
1\_P57\_GFPp12\_1DOX



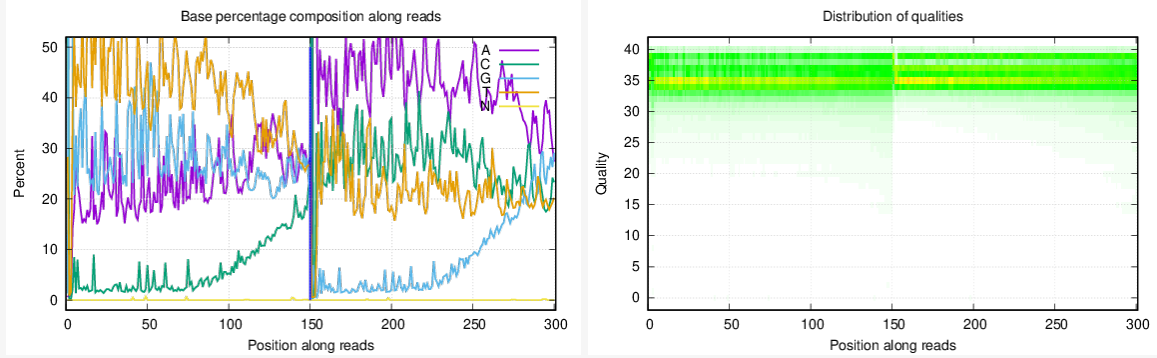
20\_wjR2\_scrNA\_p14



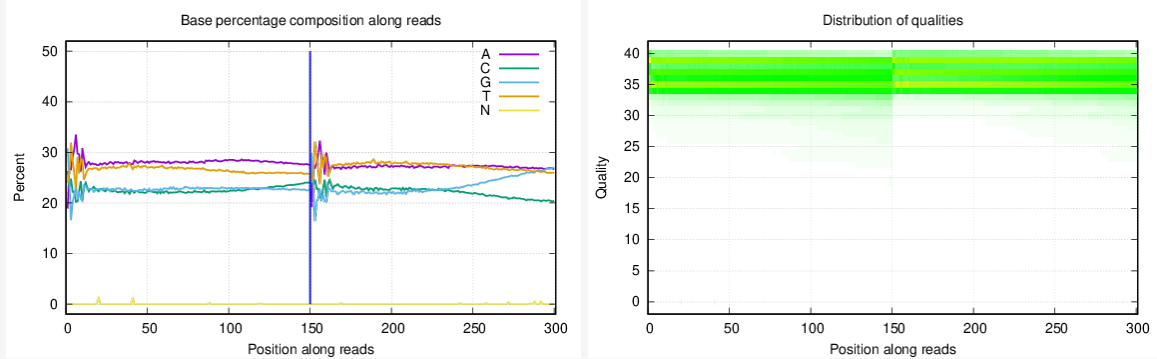
21\_P57\_p2



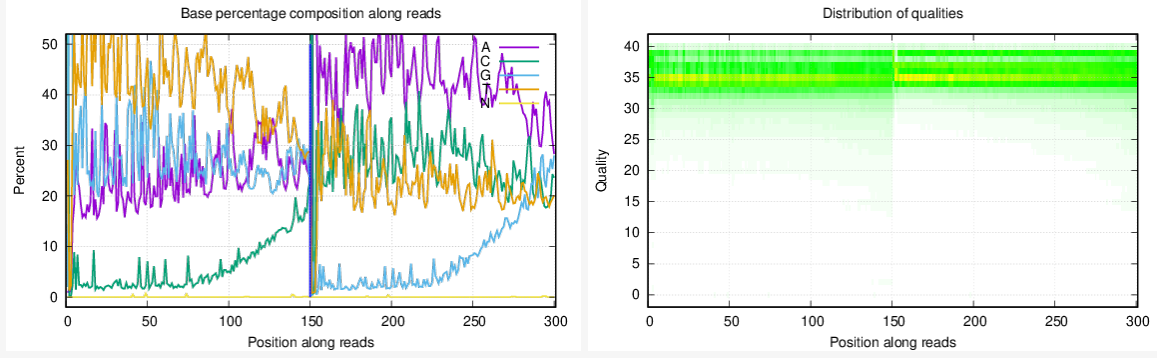
22\_P57\_p5



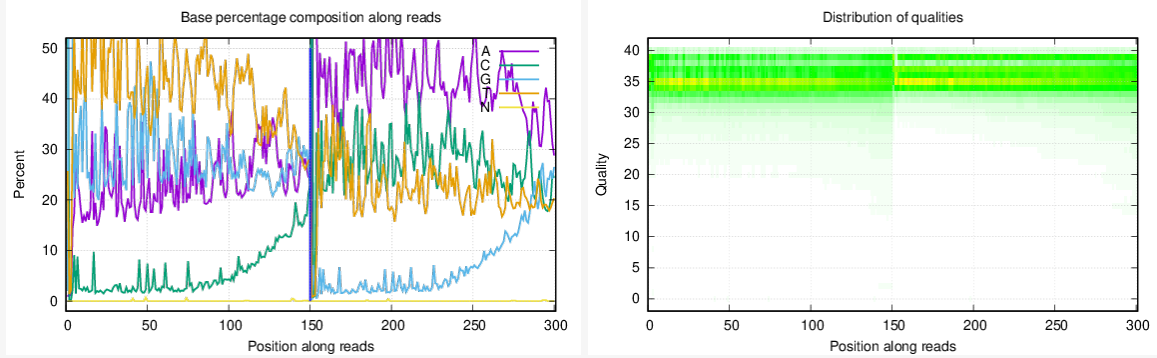
2323



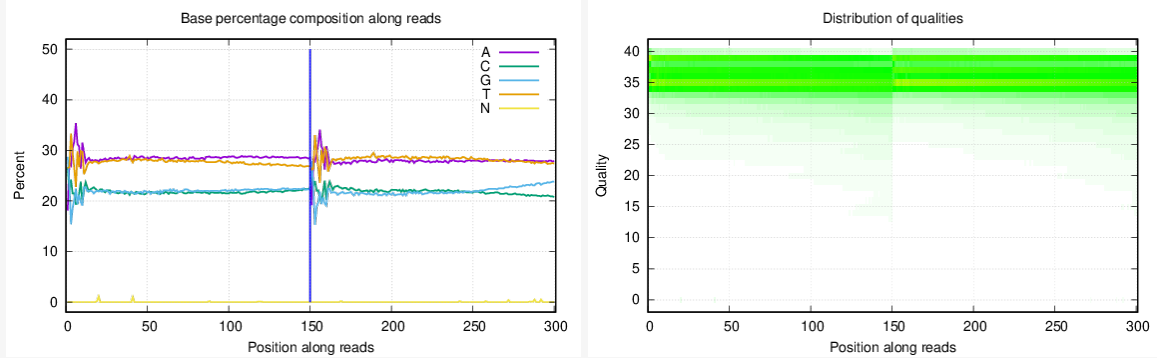
23\_P57\_p9



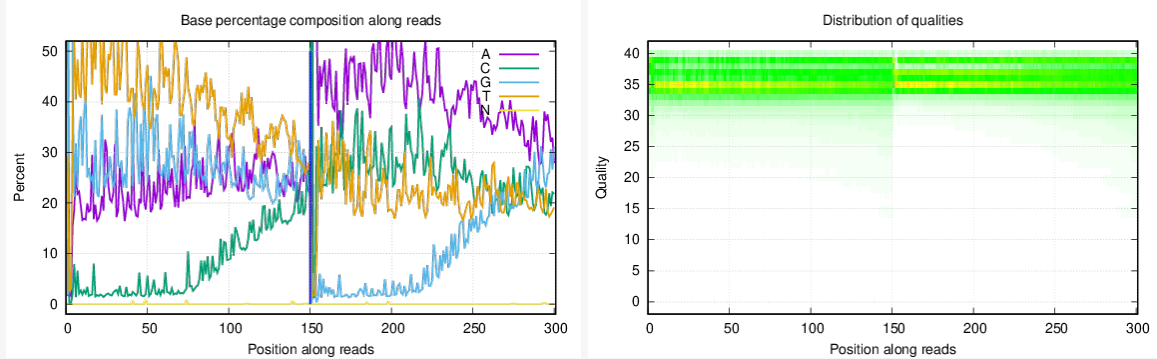
24\_24\_n57\_p15



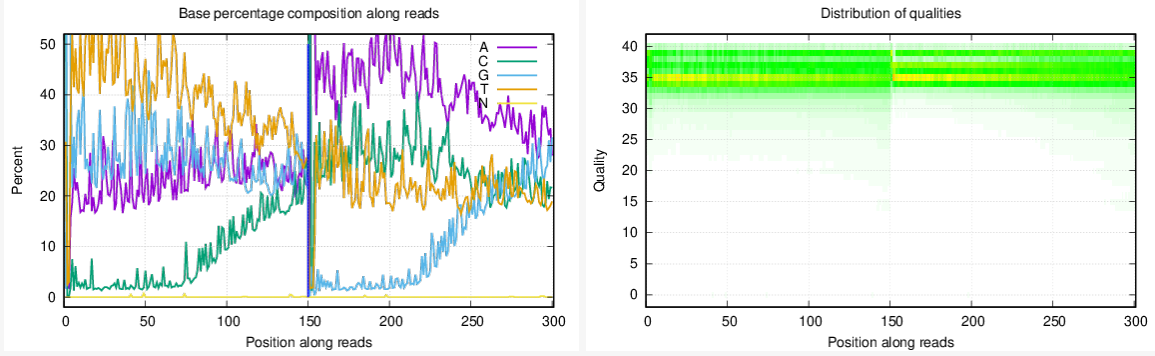
2963



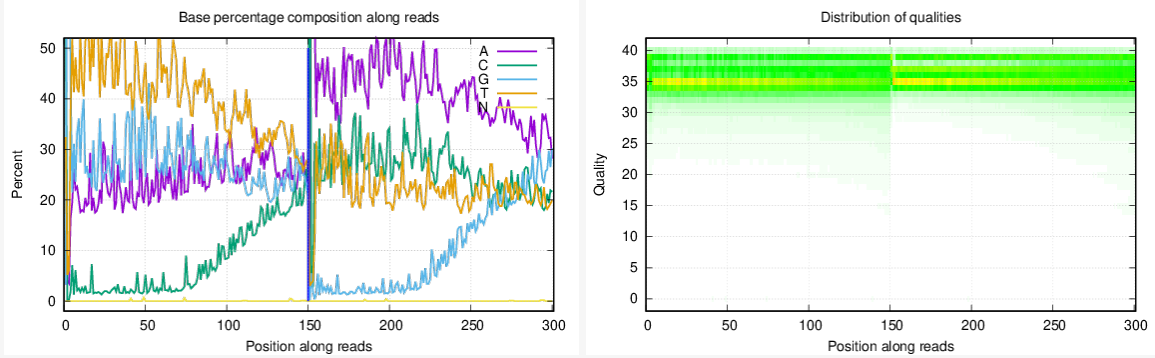
2\_P57\_GFPp12\_01DOX



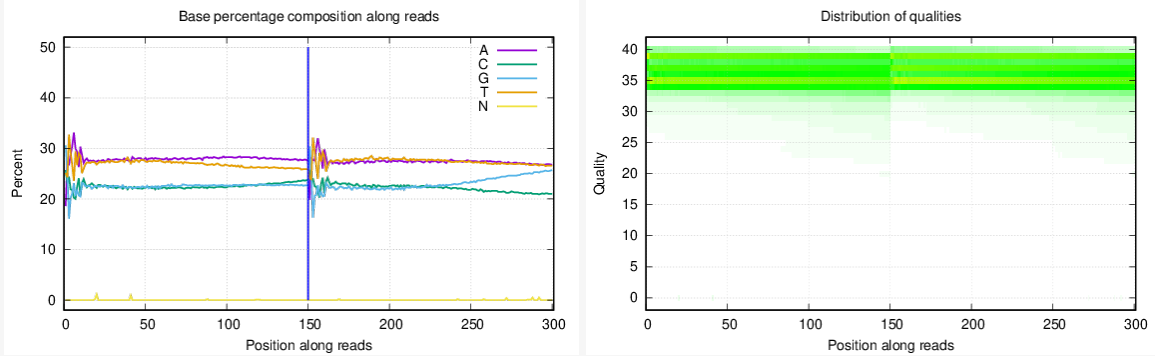
3\_P57\_GFPp12\_0DOX



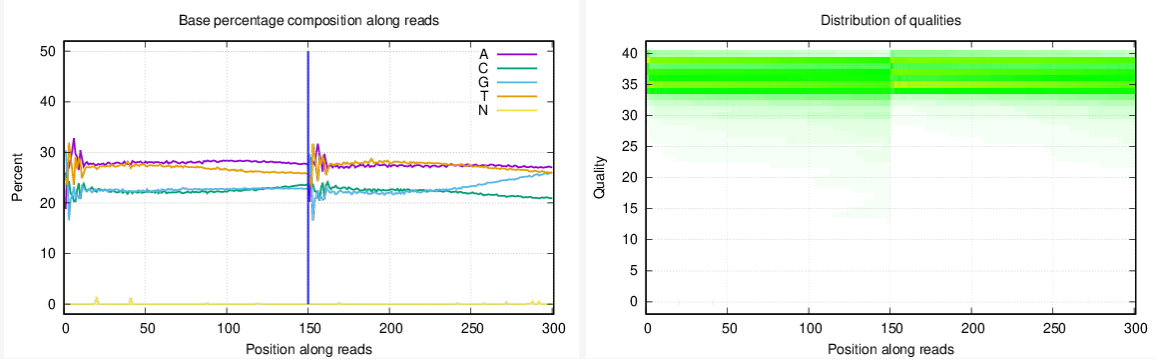
4\_P57\_SIRT1p12\_1DOX



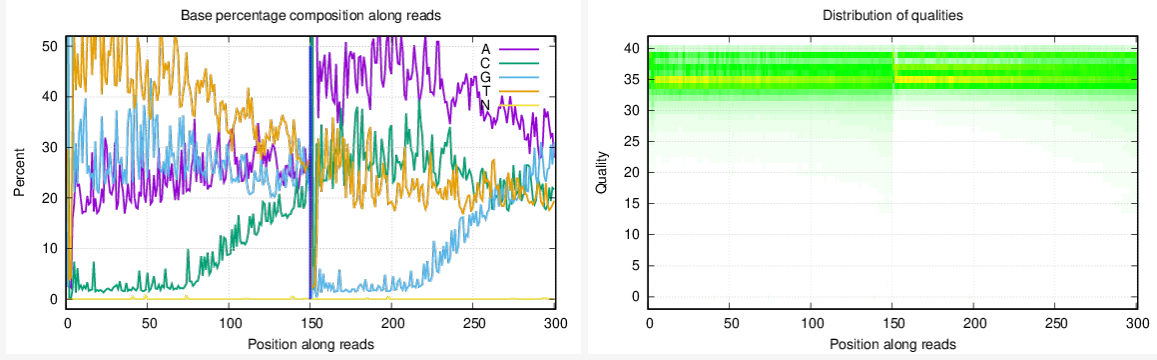
5045



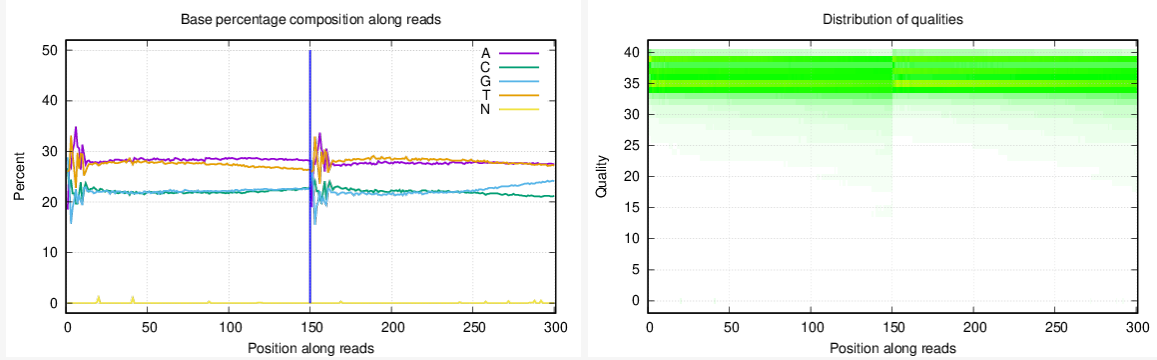
5555



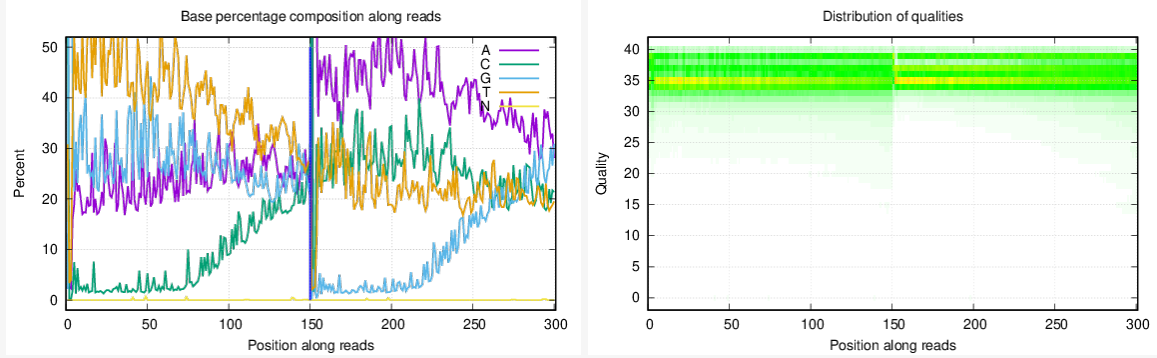
5\_P57\_SIRT1p12\_01DOX



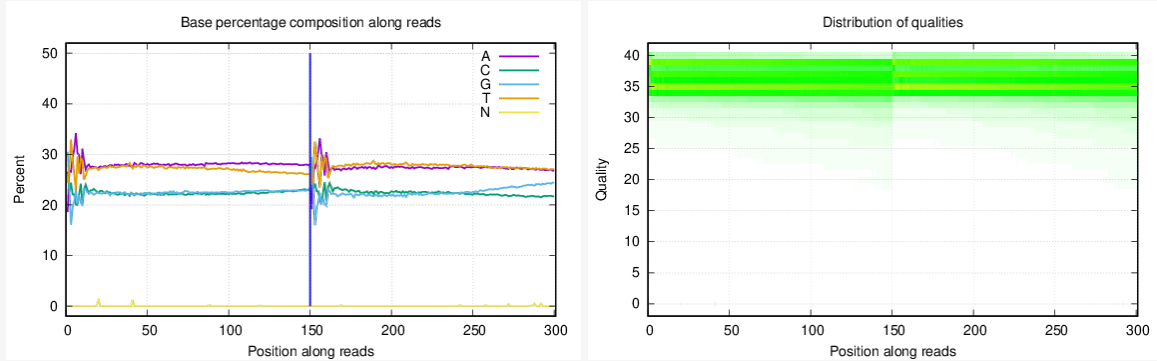
6921



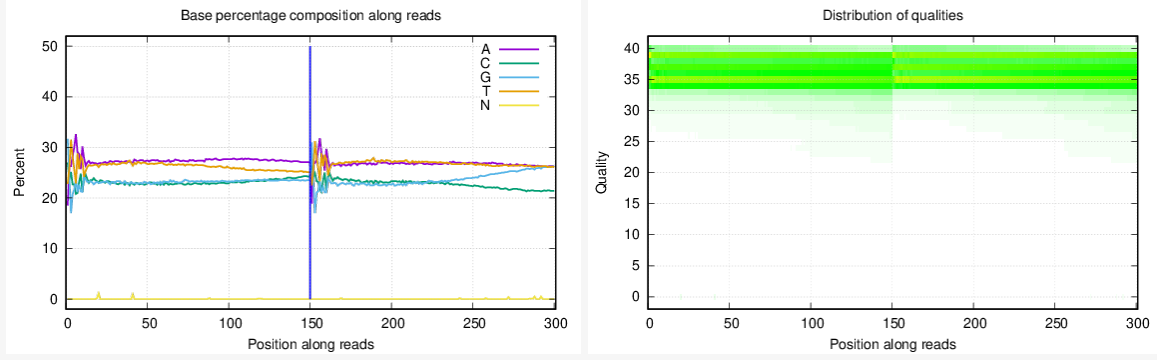
6\_P57\_SIRT1p12\_ODOX



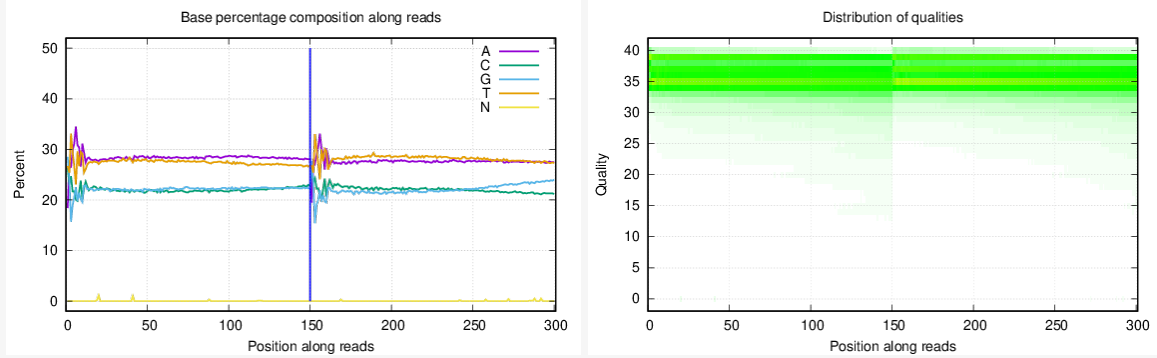
7119



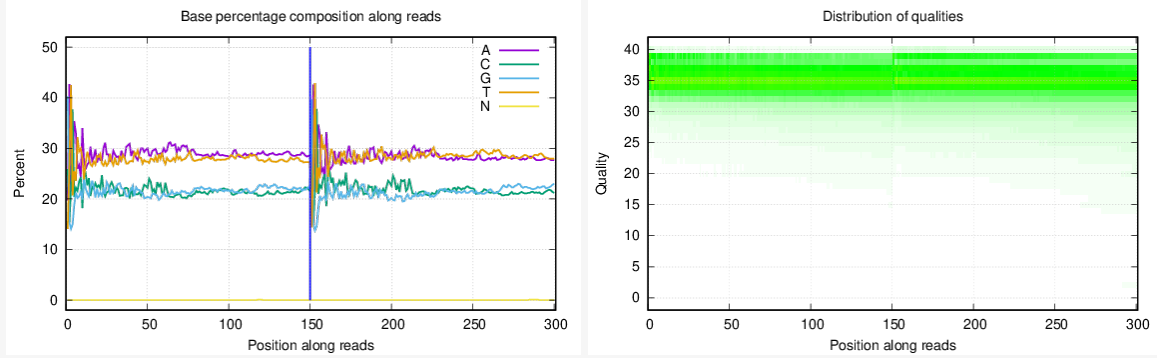
7210



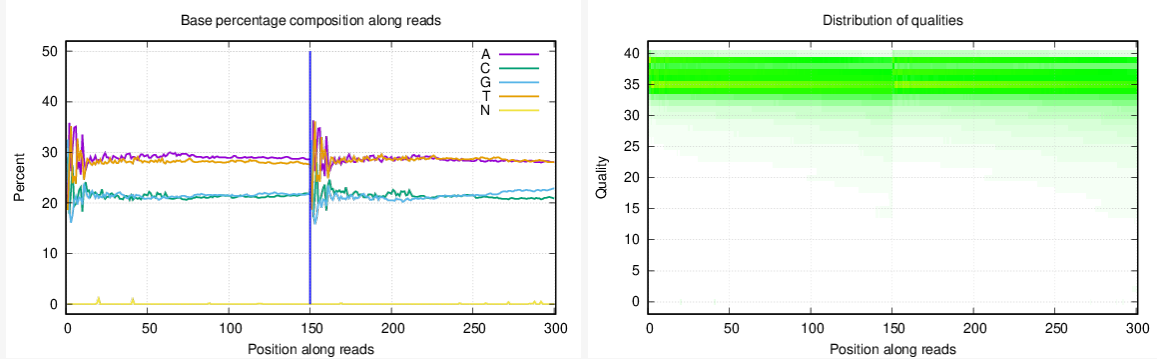
7348



74C\_R3

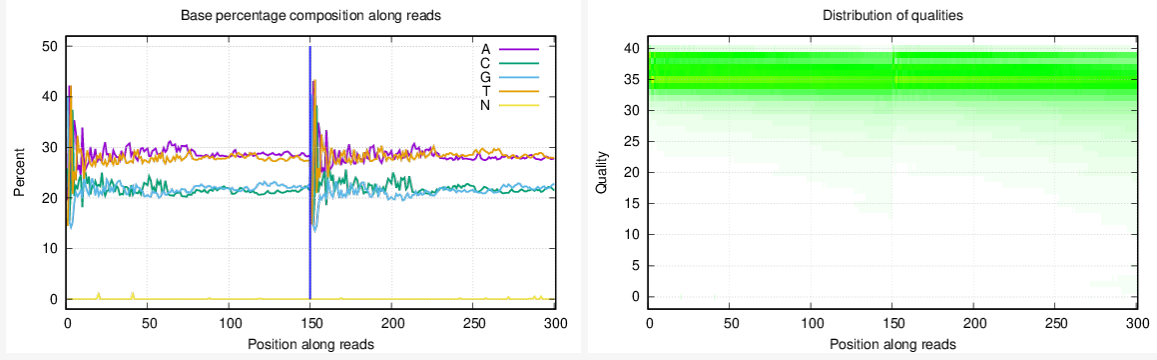


74T\_R2

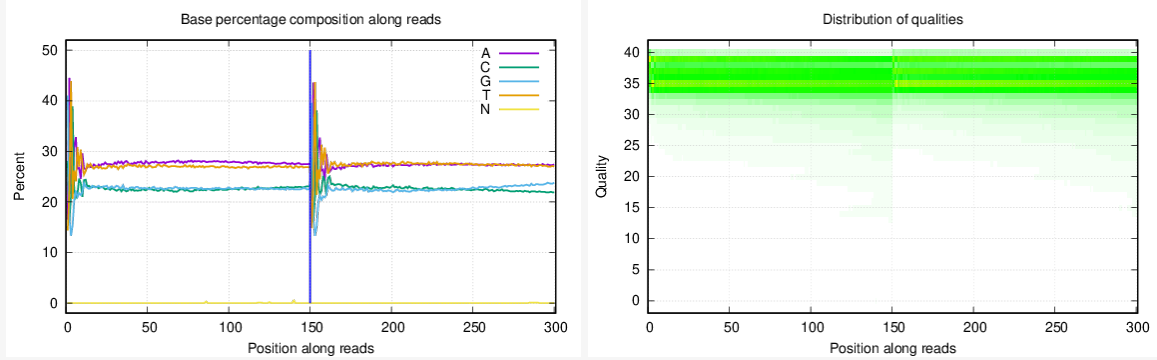


74T\_R3

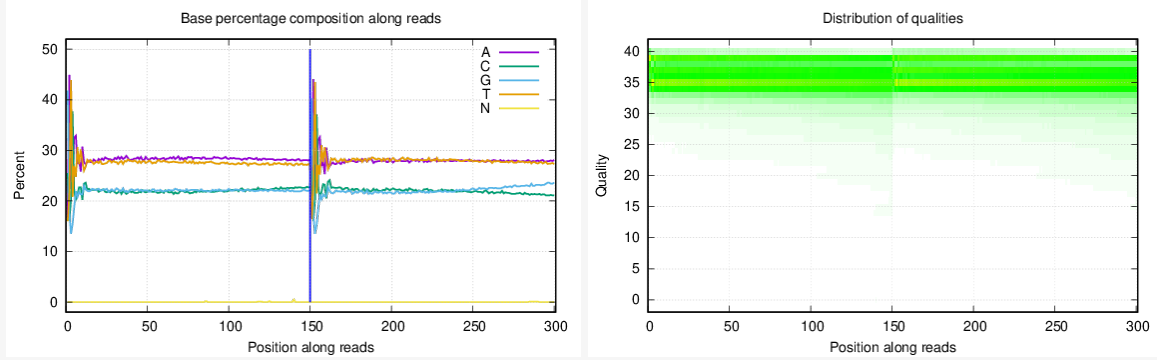




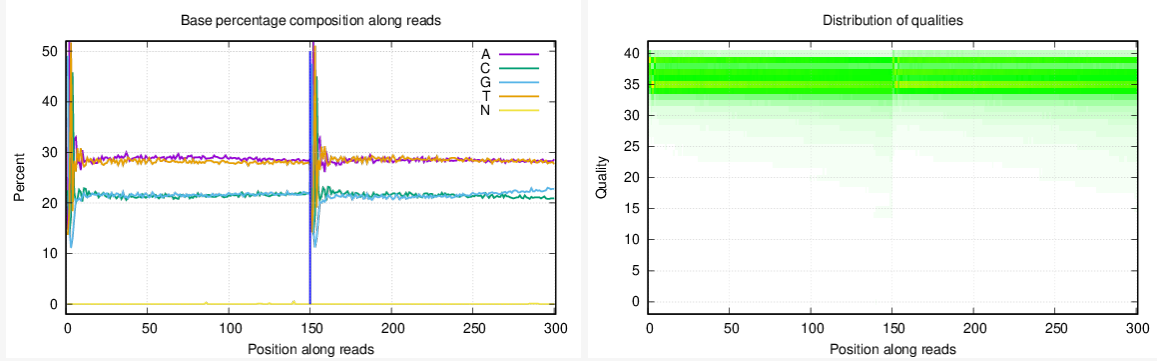
7\_A1



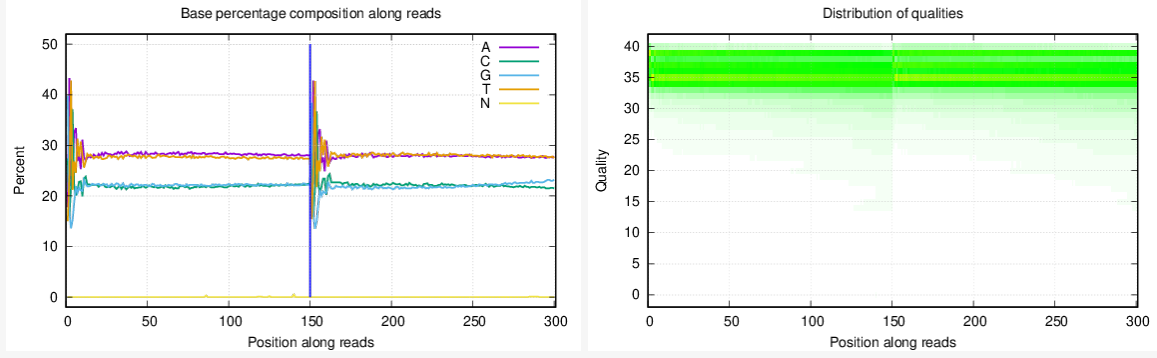
7\_A2



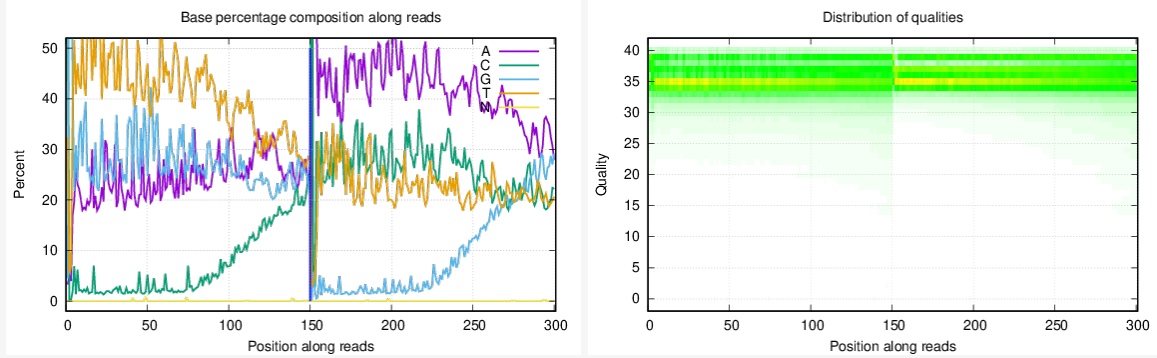
7\_C1



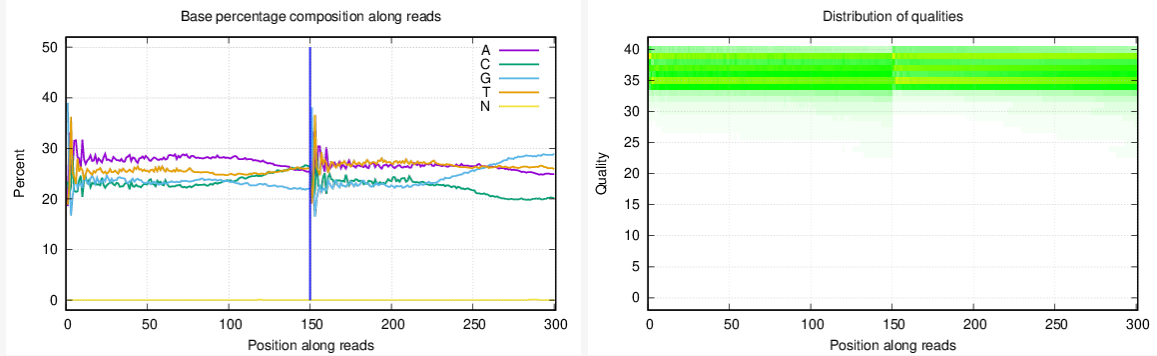
7\_C2



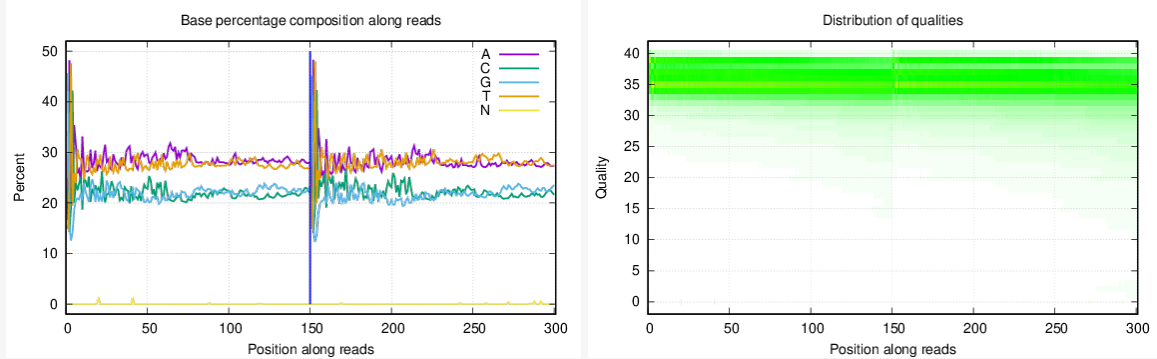
7\_P57\_SIRT1p16\_01DOX



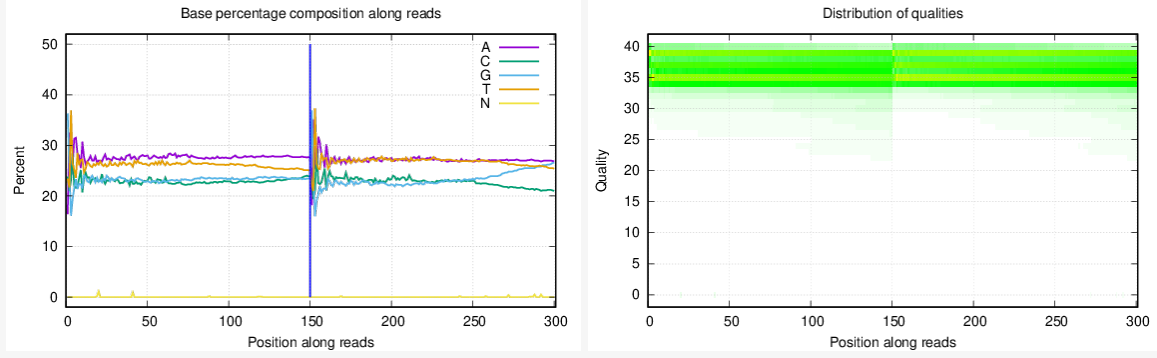
87C



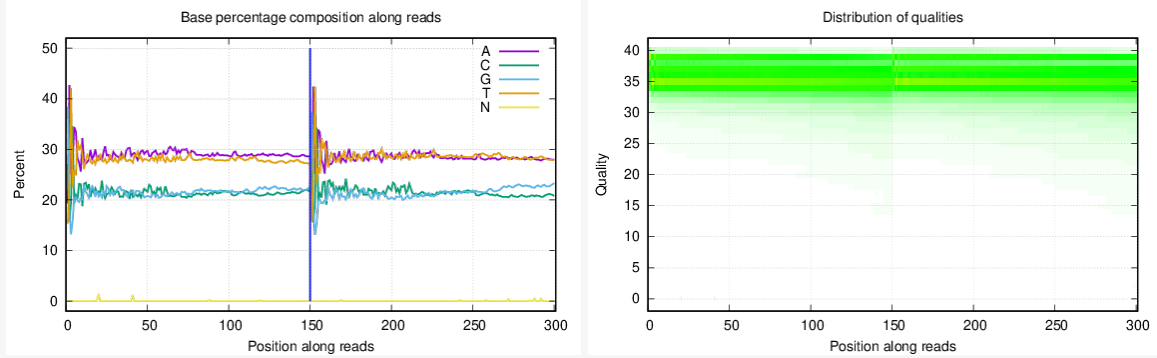
87C\_R5



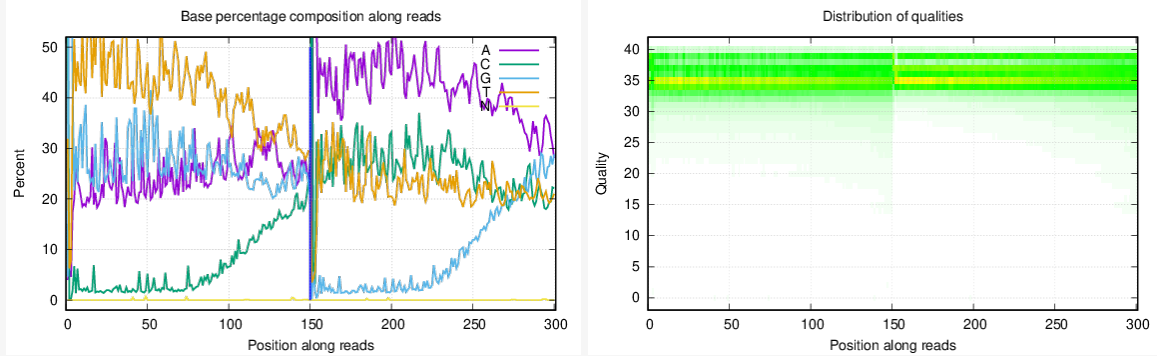
87T



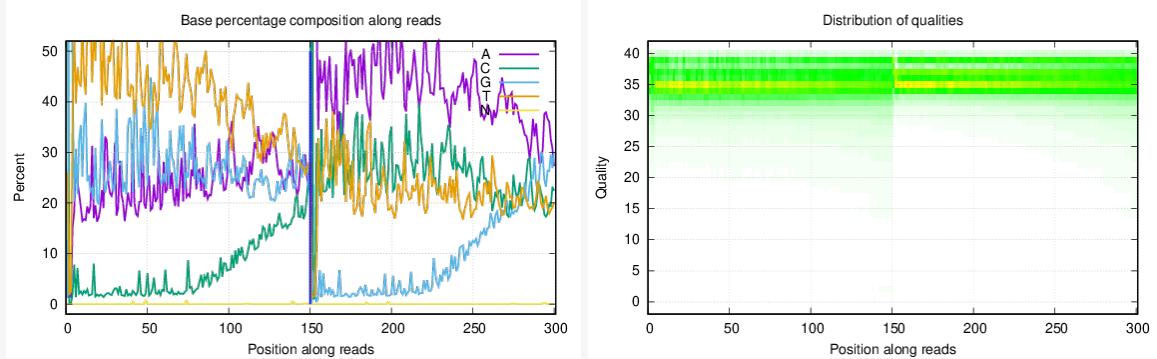
87T\_R5



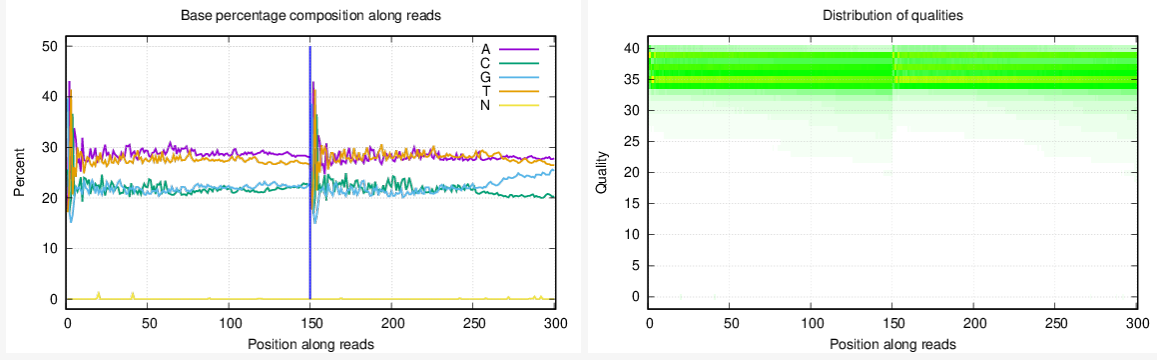
8\_P57\_SIRT1p16\_0DOX



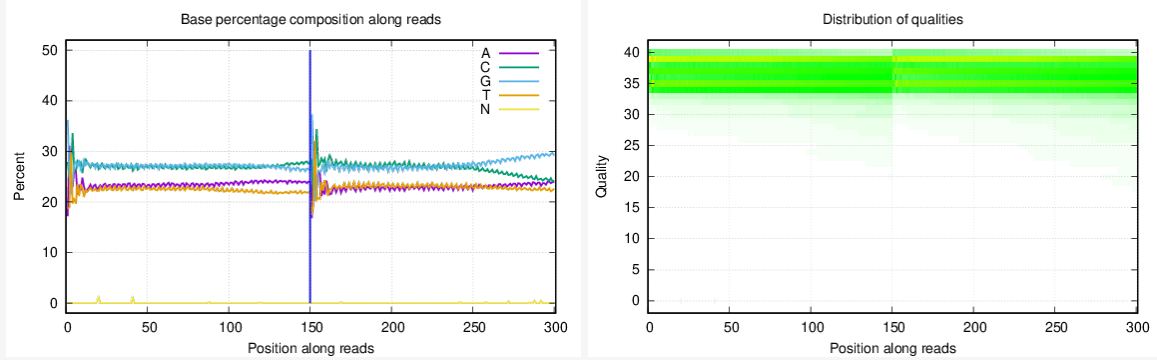
9\_P57\_SIRT3p12\_1DOX



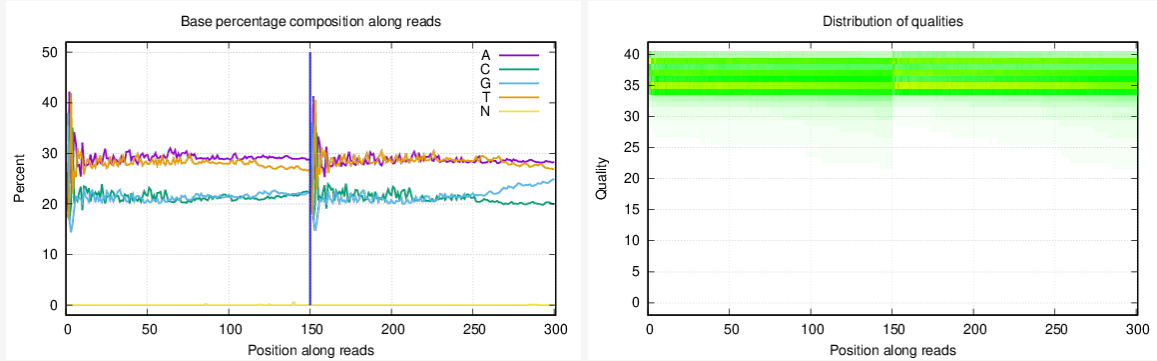
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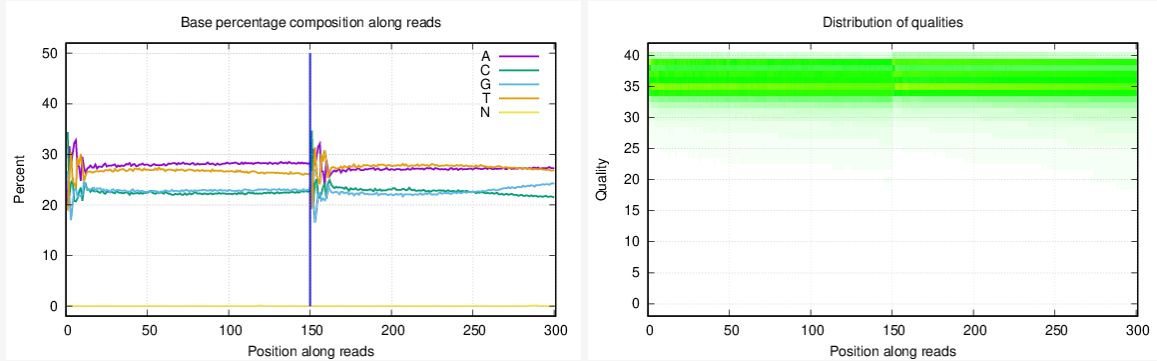
Bag1\_K



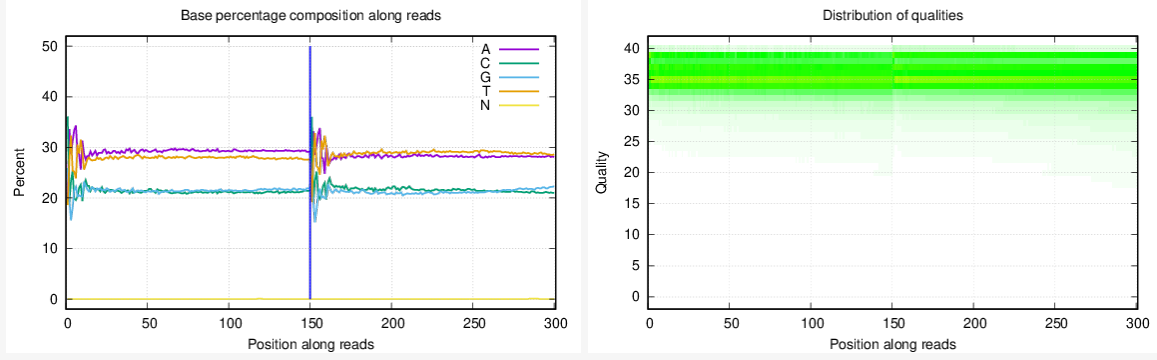
Chal2\_e



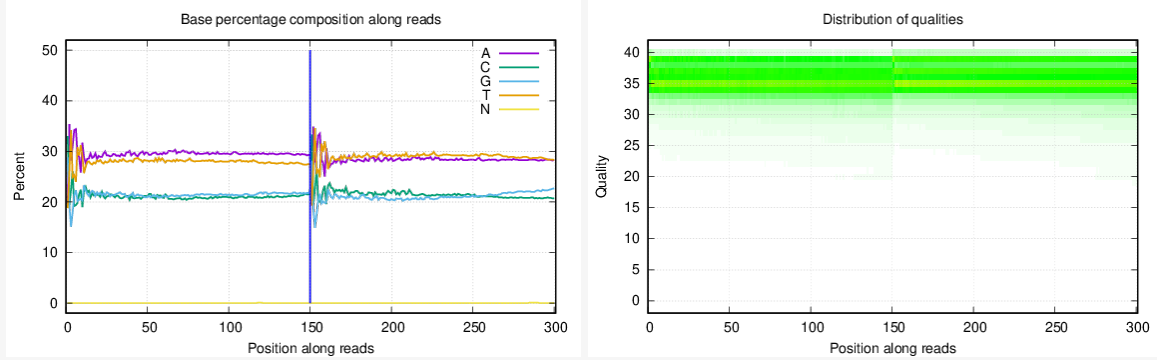
Chal\_K1



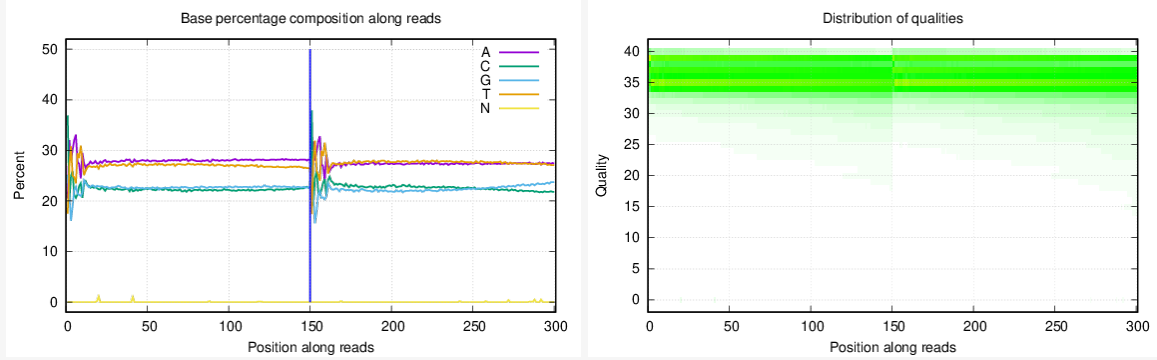
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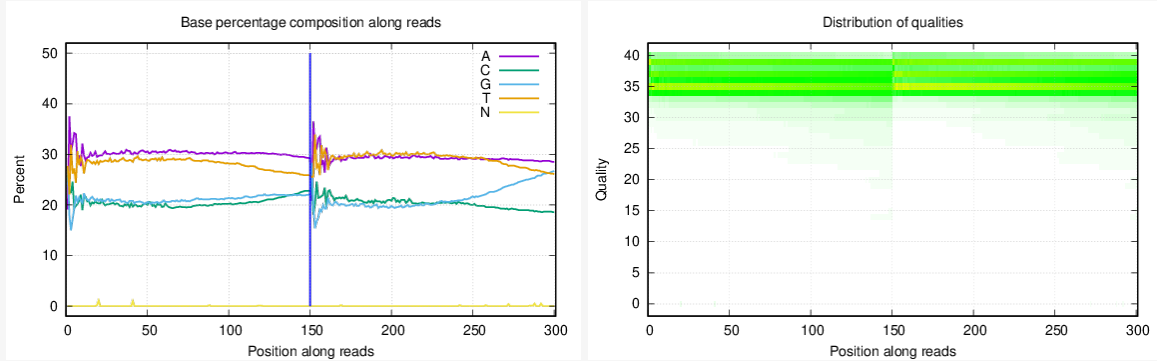
**Chal\_e**



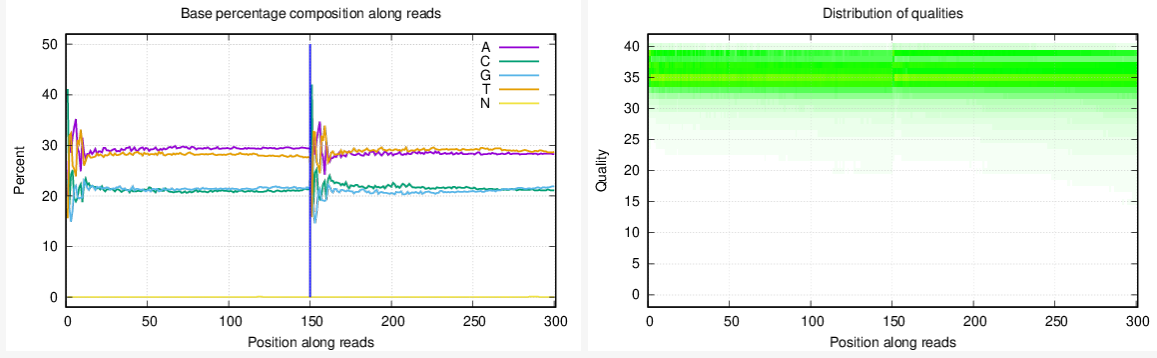
**Dik\_K2**



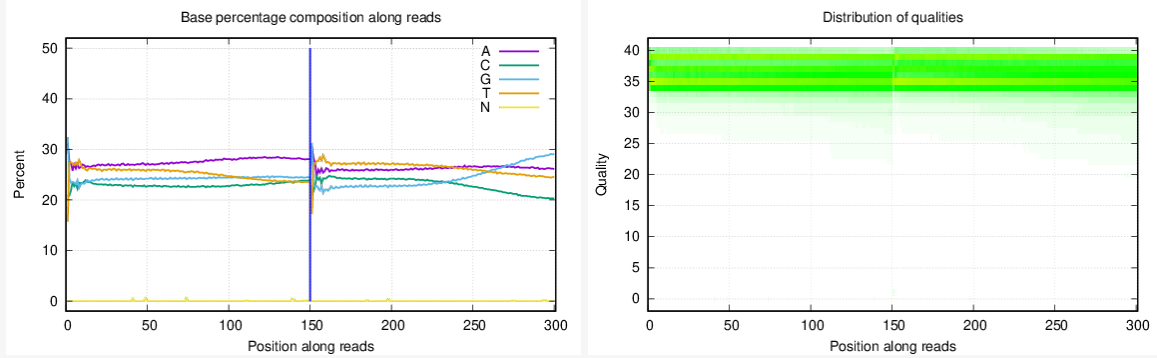
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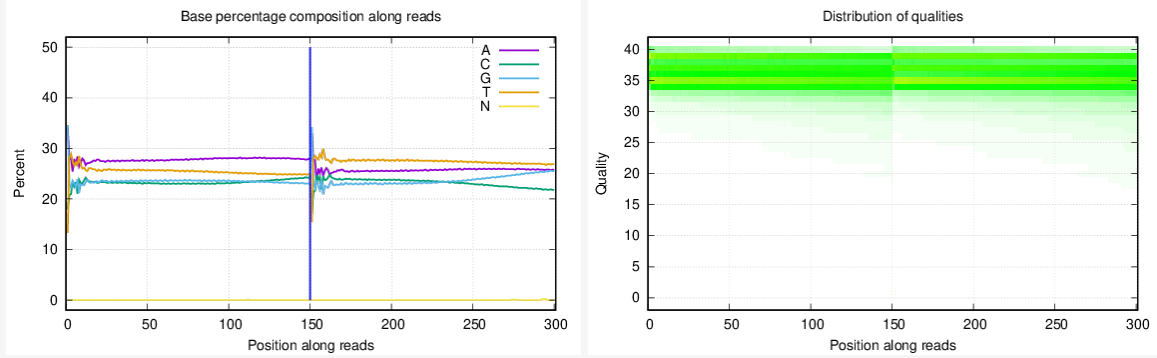
**K13**



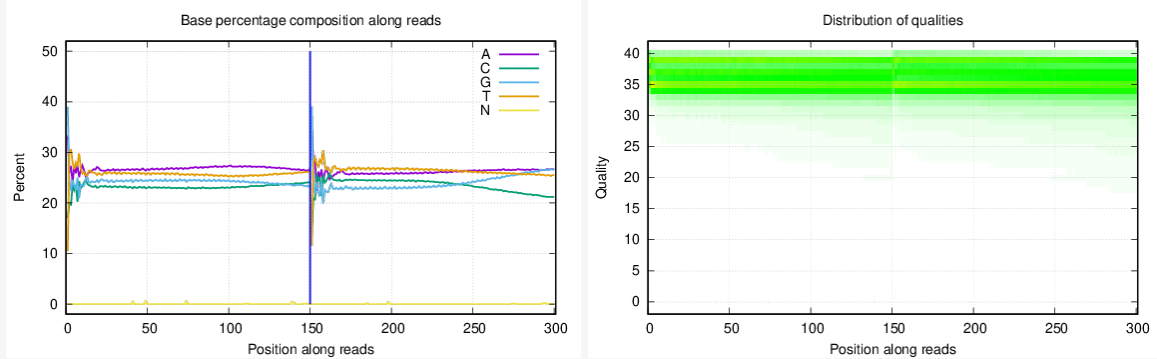
MSQ43\_H2A199Ub\_r1



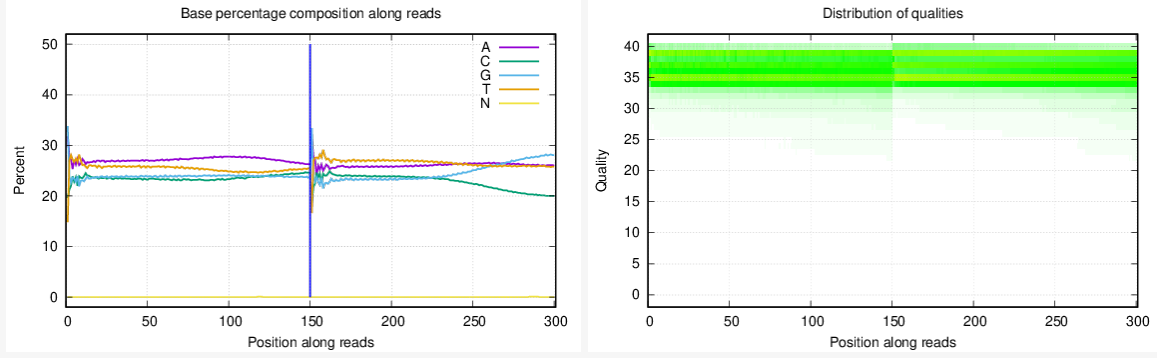
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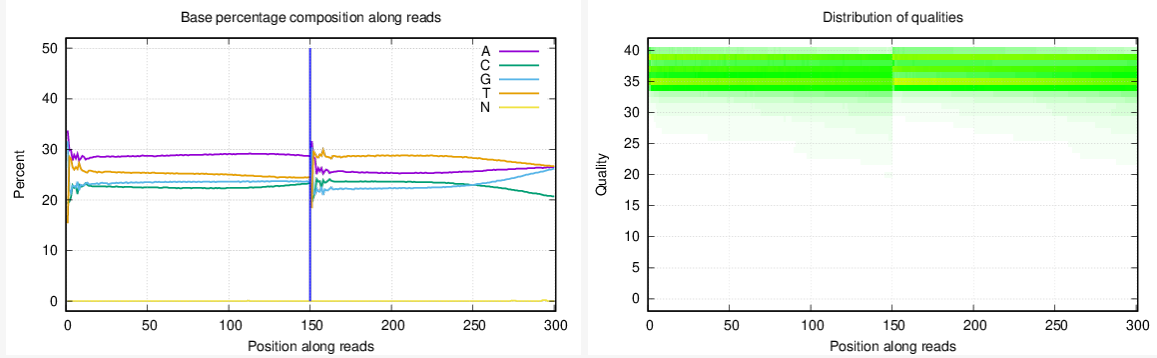
MSQ43\_H3K27Ac\_r2



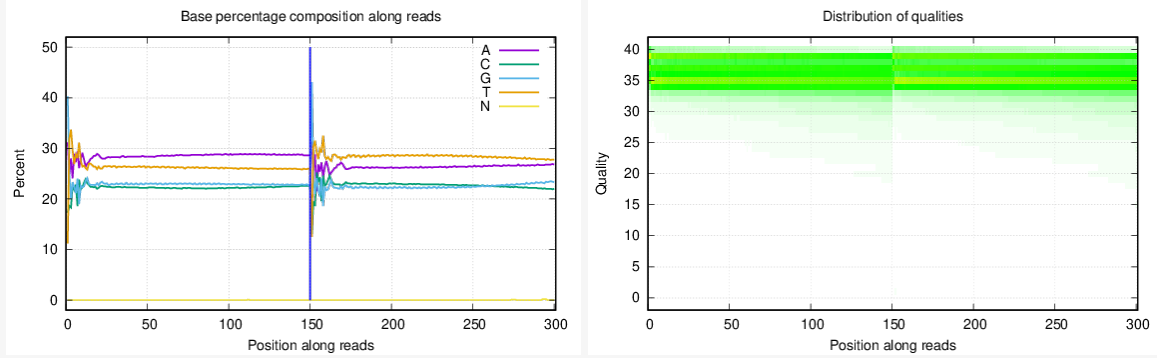
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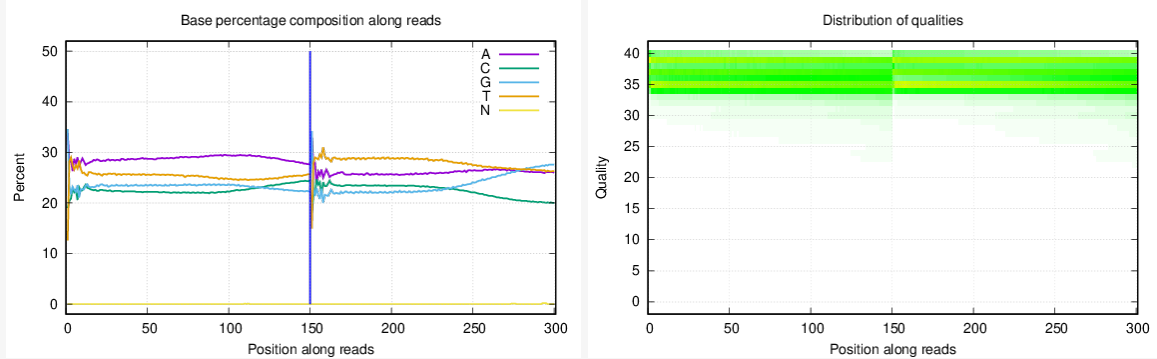
MSQ43\_H3K27me3\_r1\_i



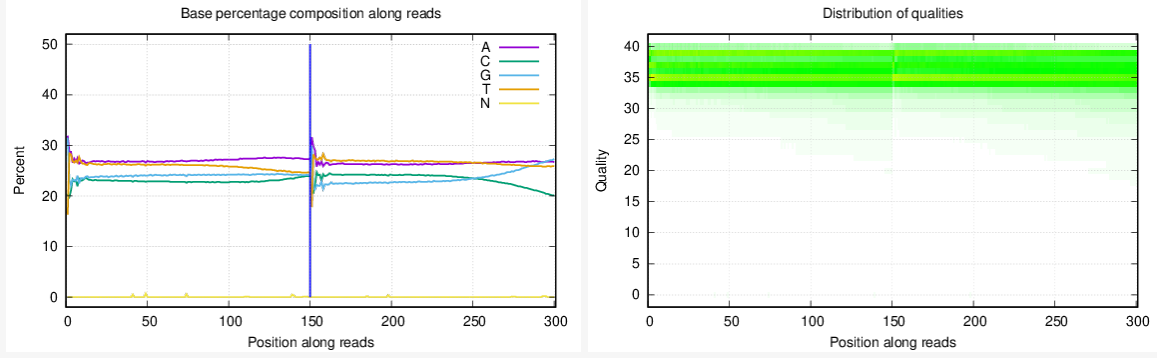
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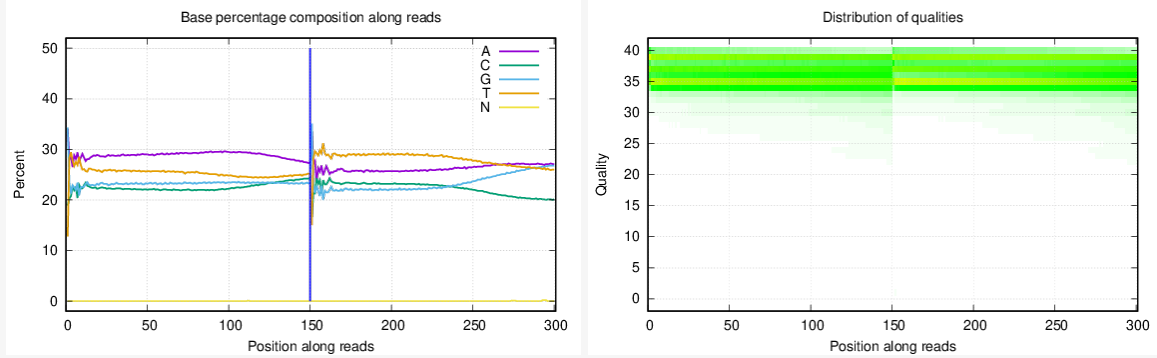
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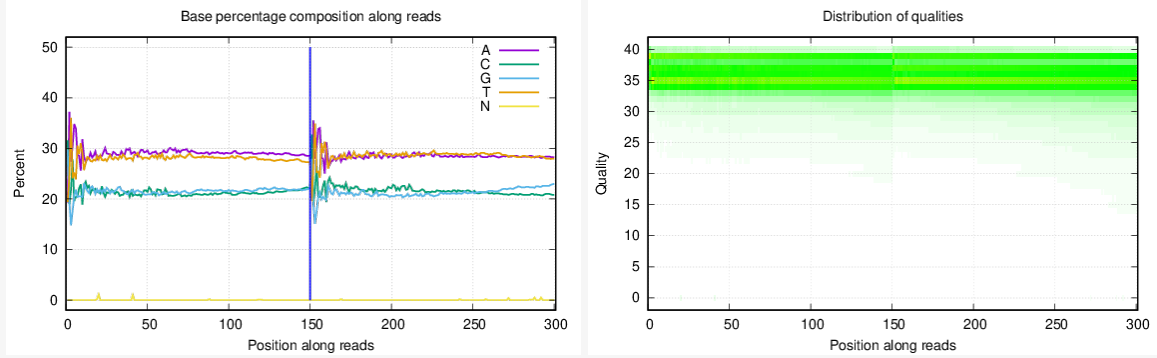
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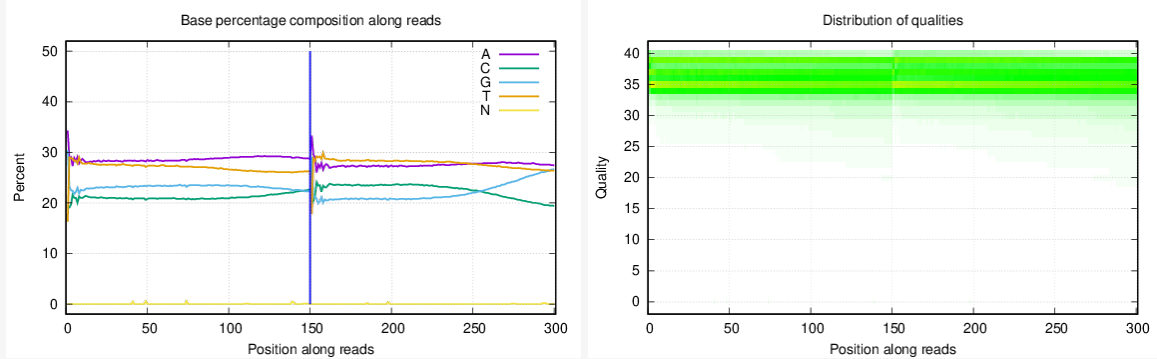
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Mar1\_K

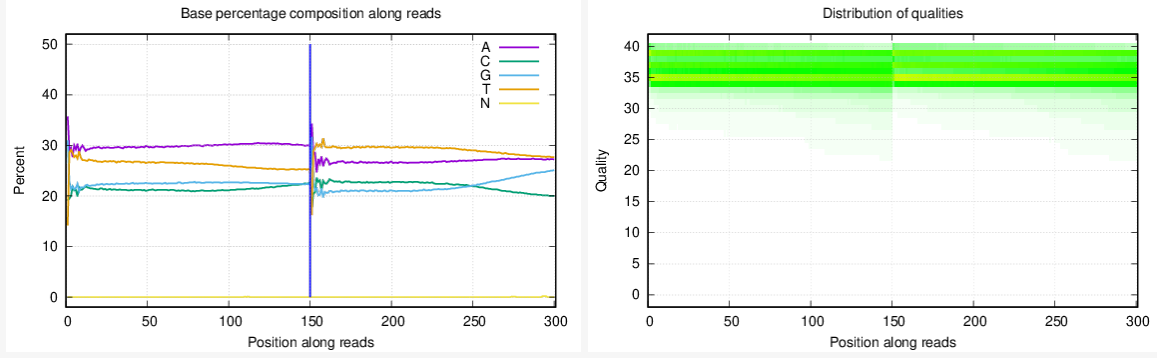


MoPh11\_H2A199Ub\_r1

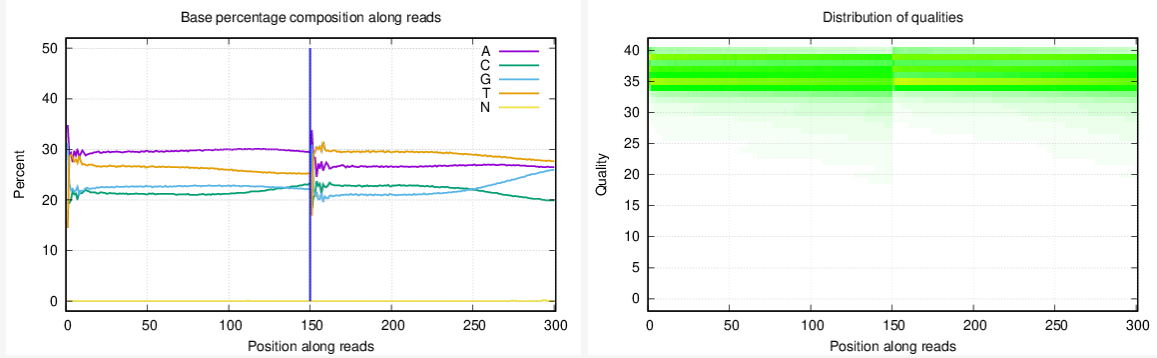


MoPh11\_H3K27Ac\_r1

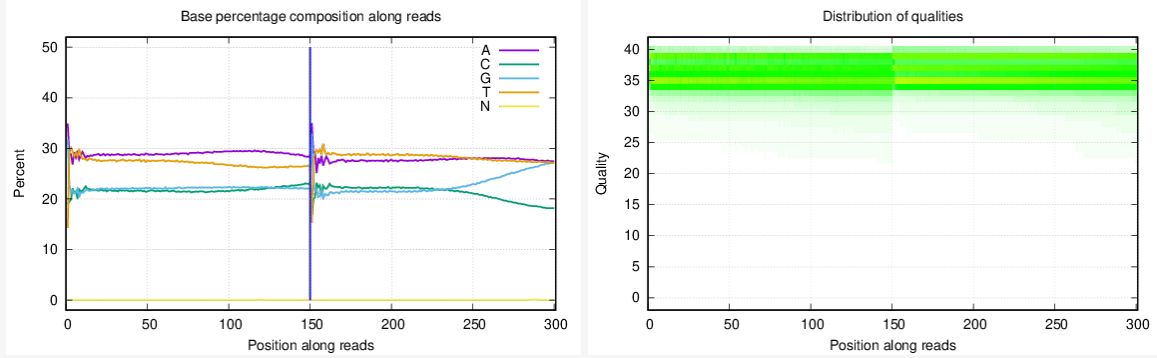




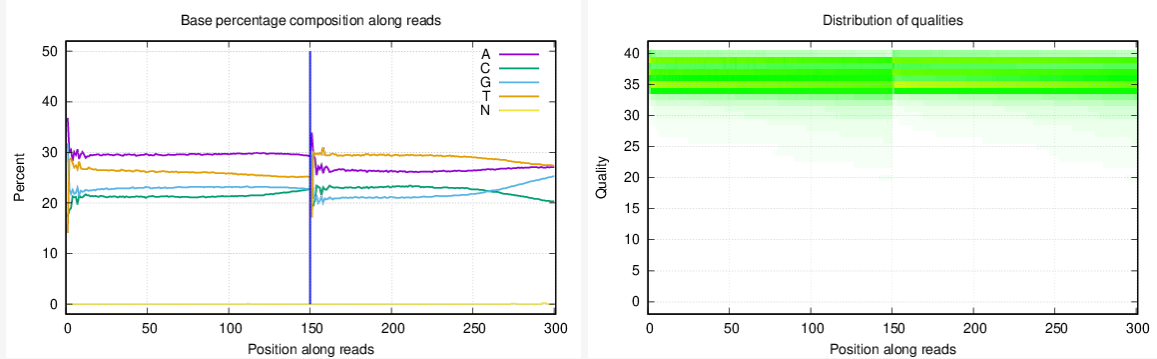
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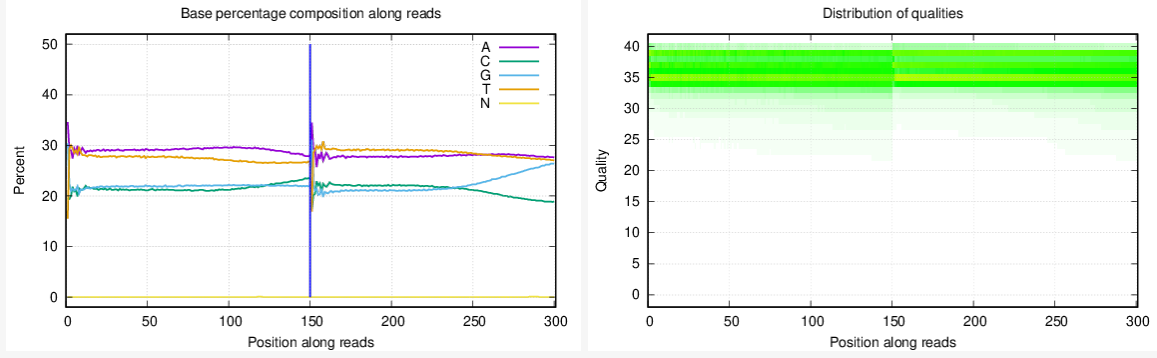
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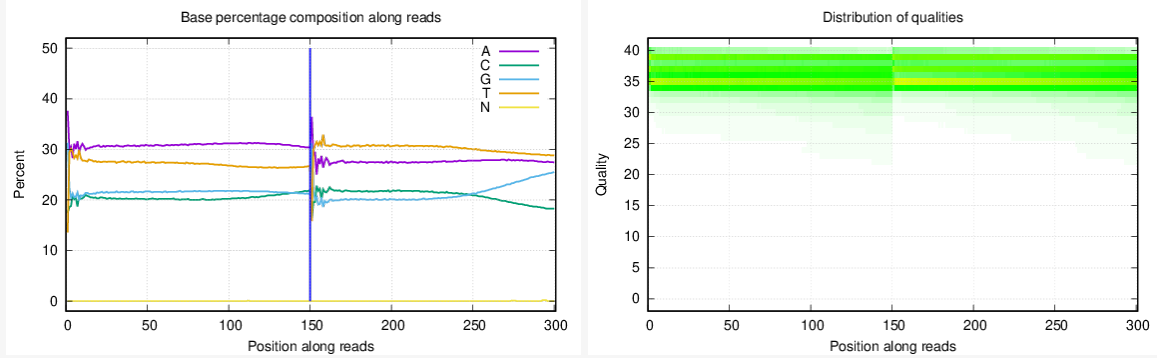
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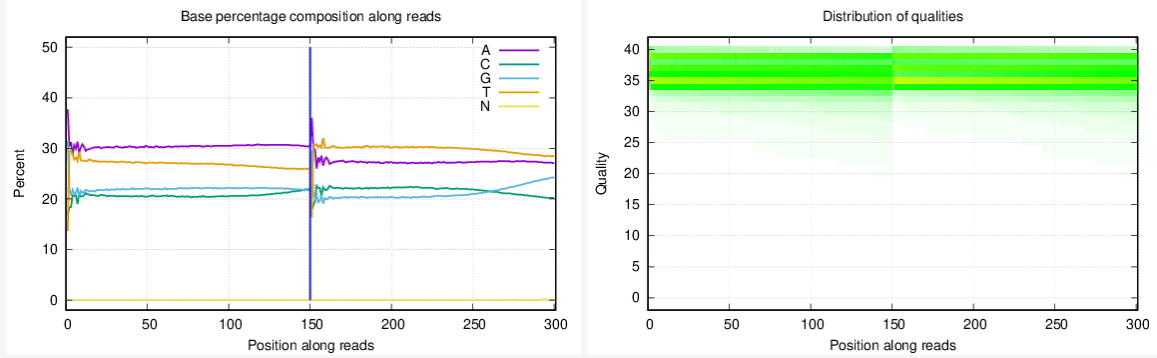
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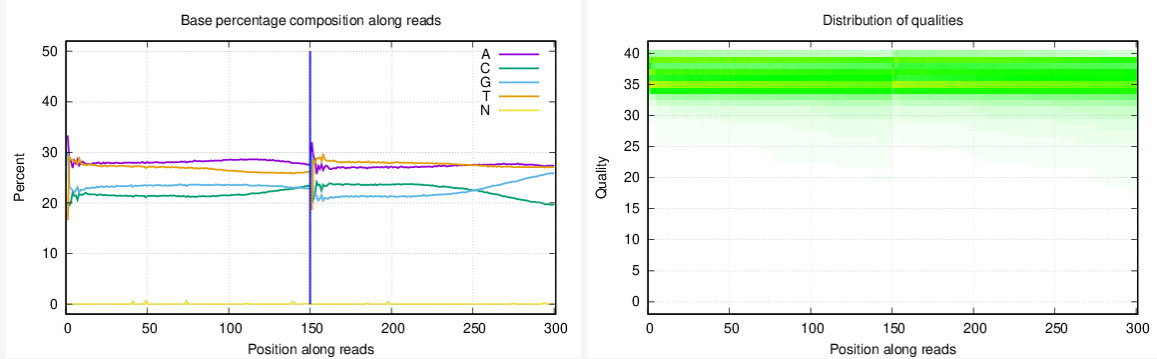
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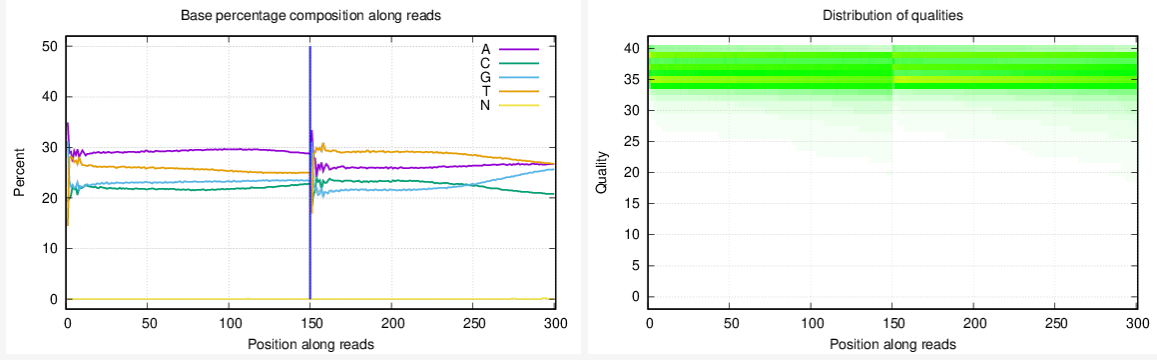
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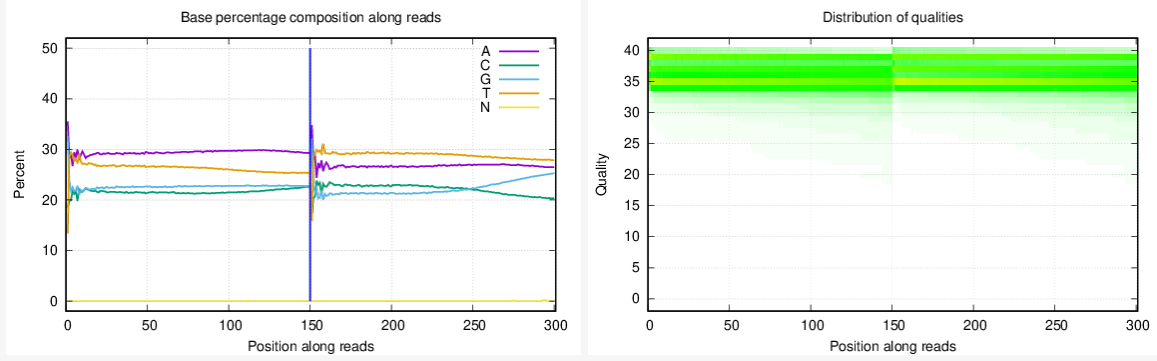
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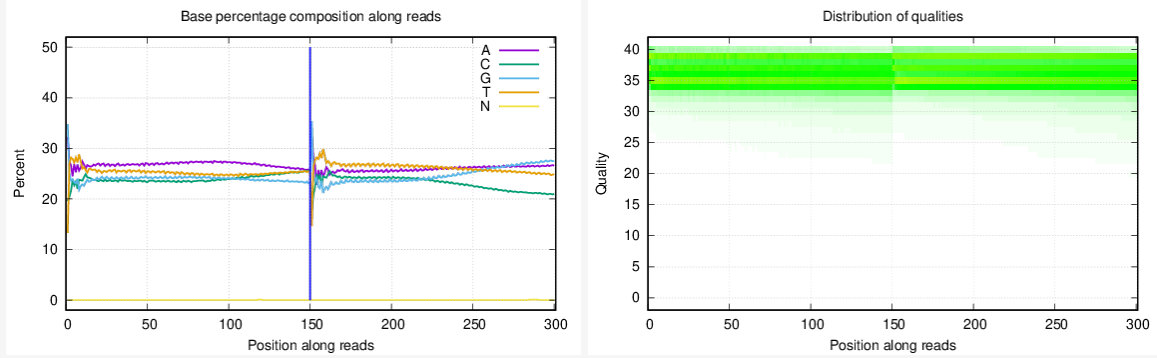
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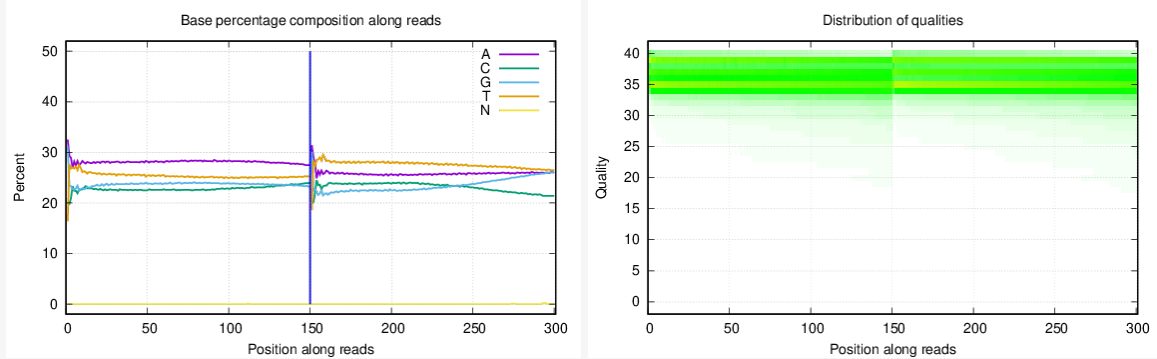
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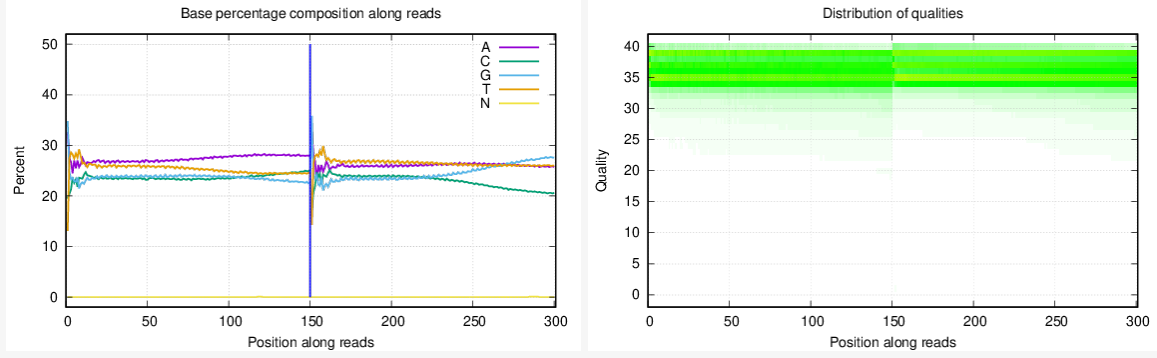
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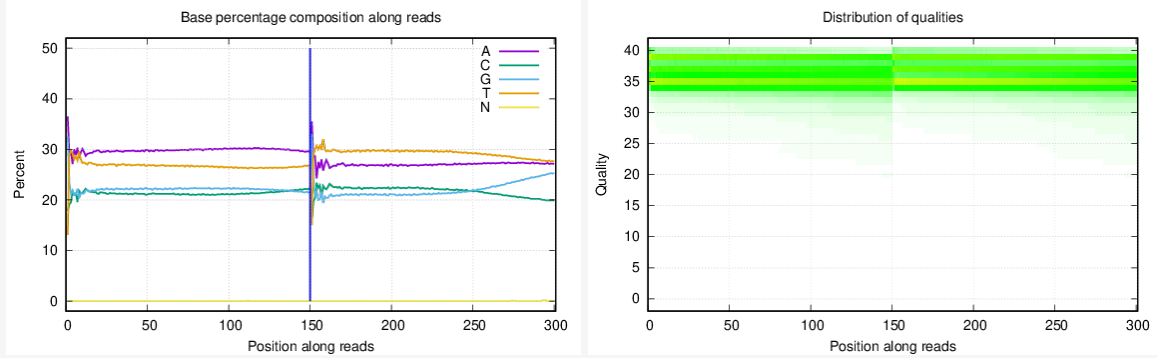
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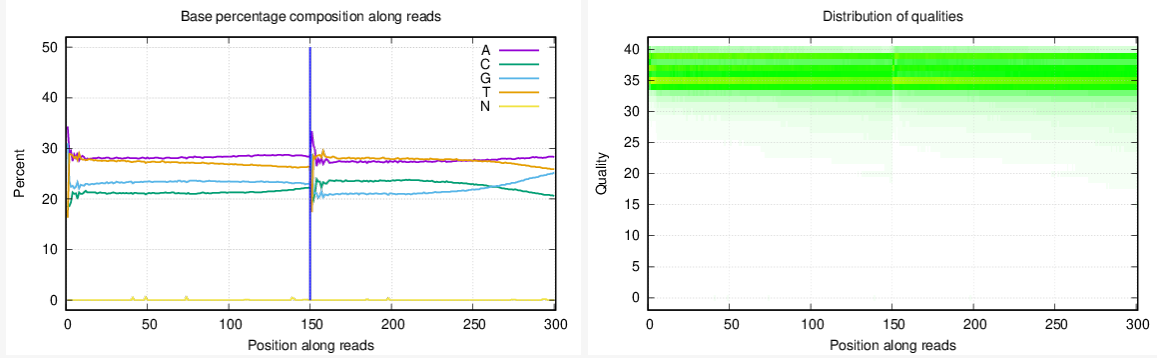
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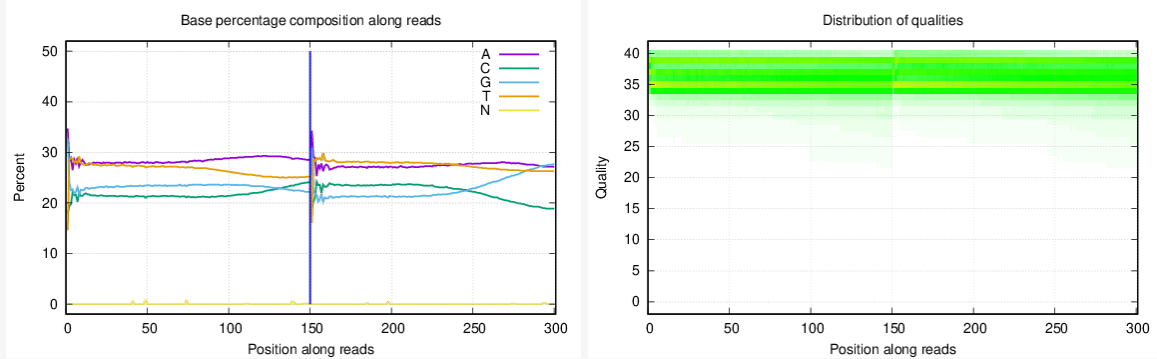
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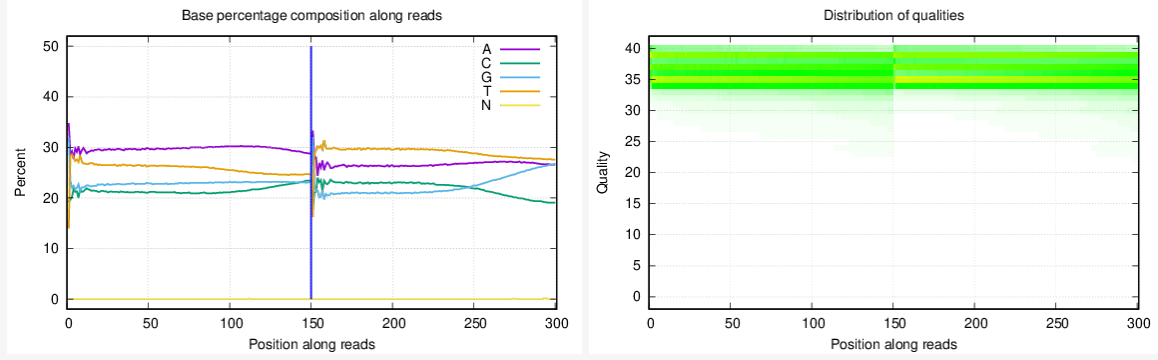
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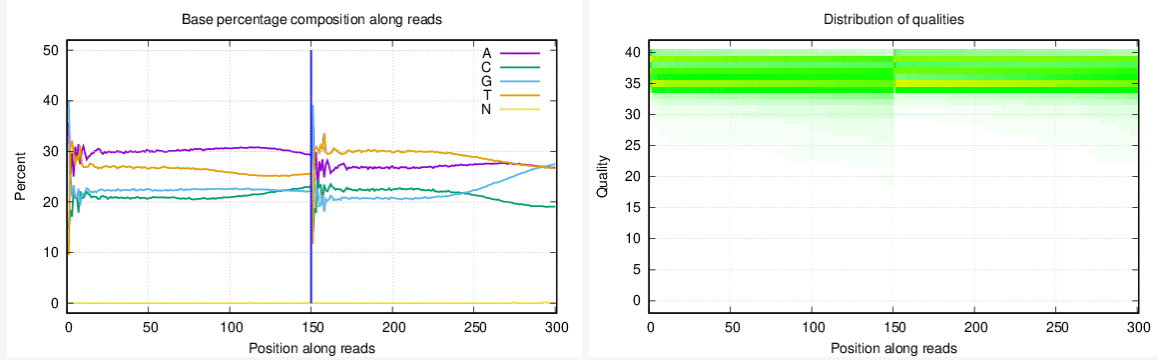
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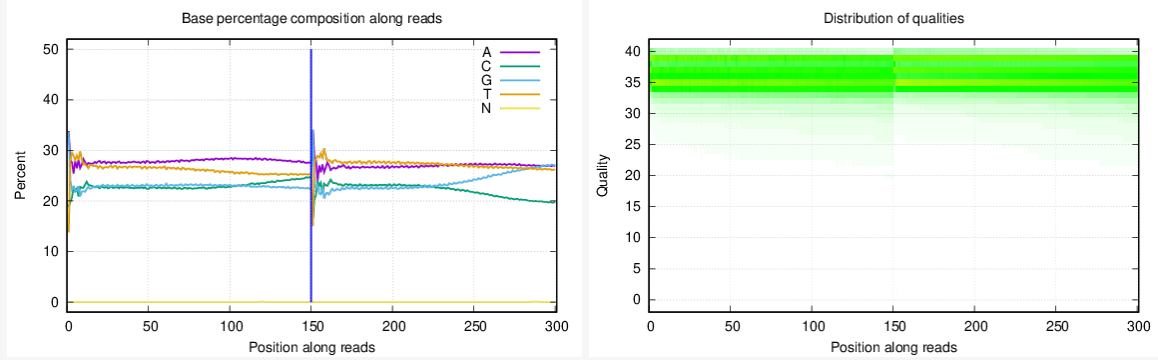
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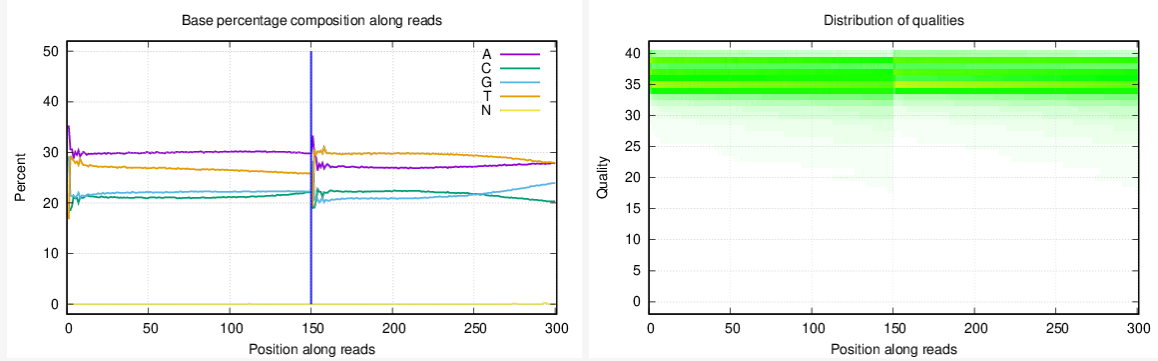
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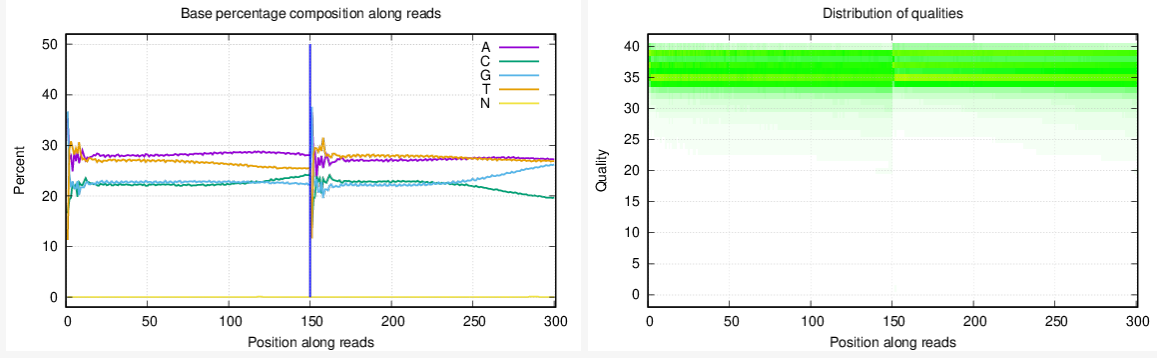
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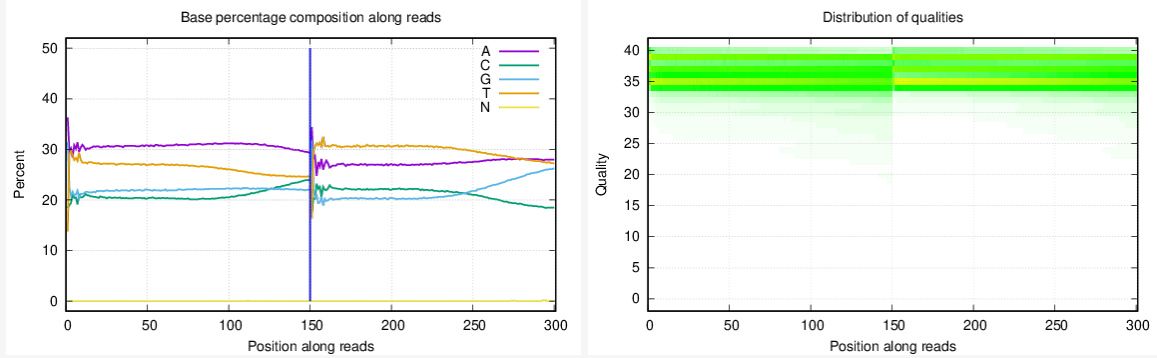
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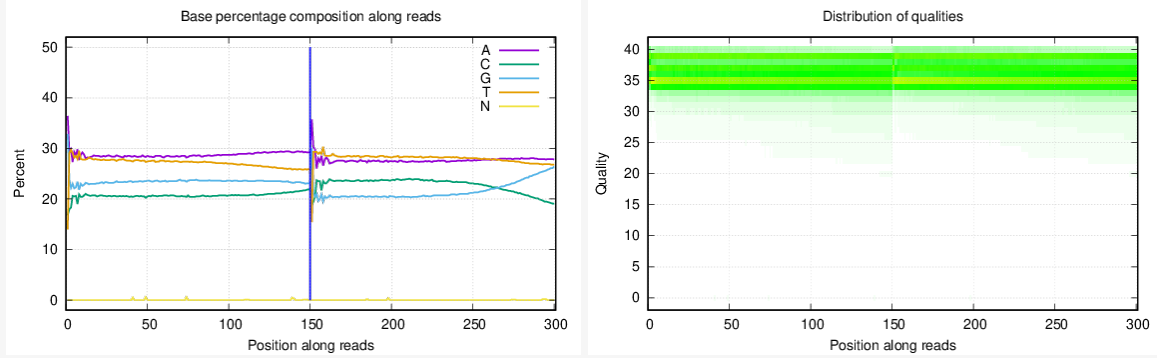
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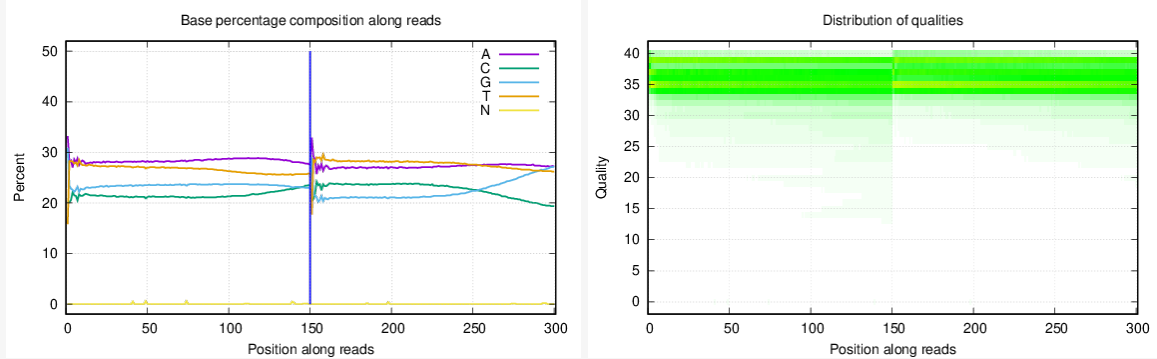
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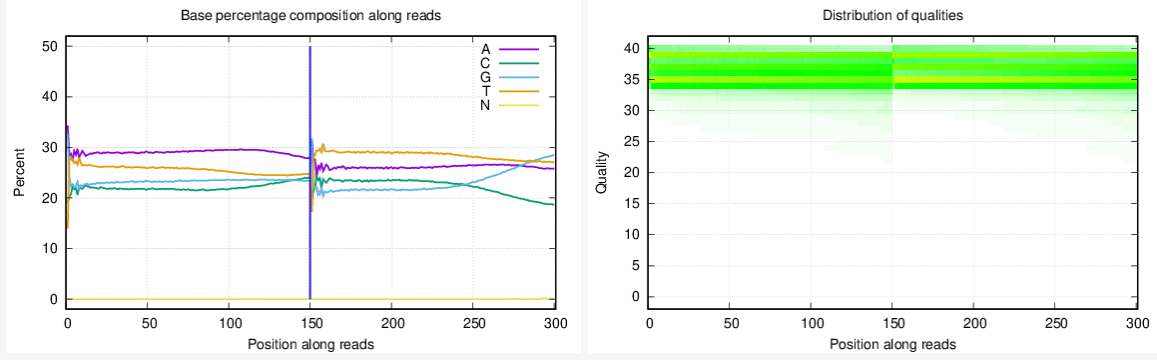
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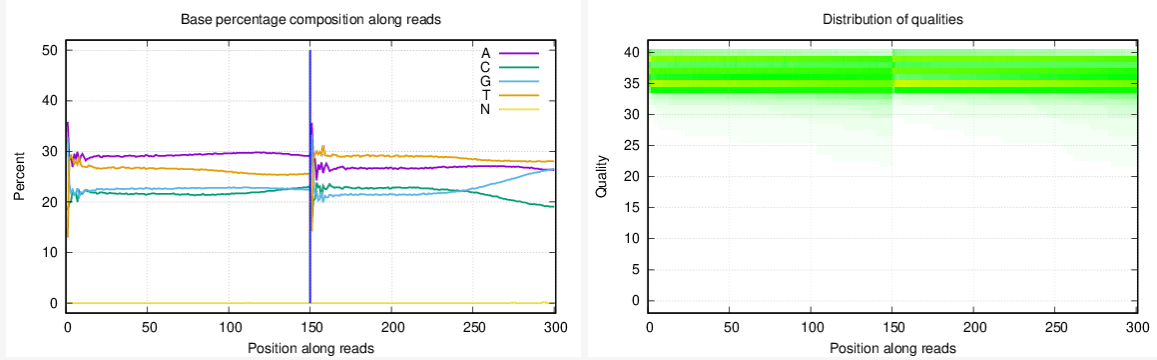
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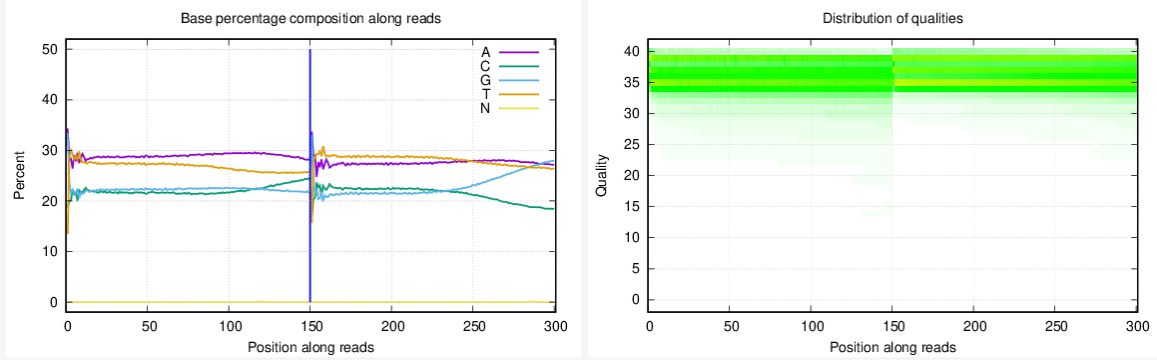
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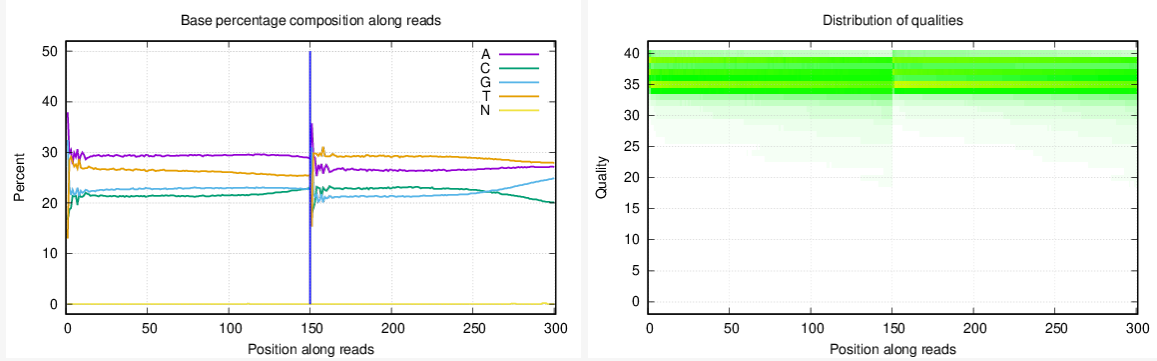
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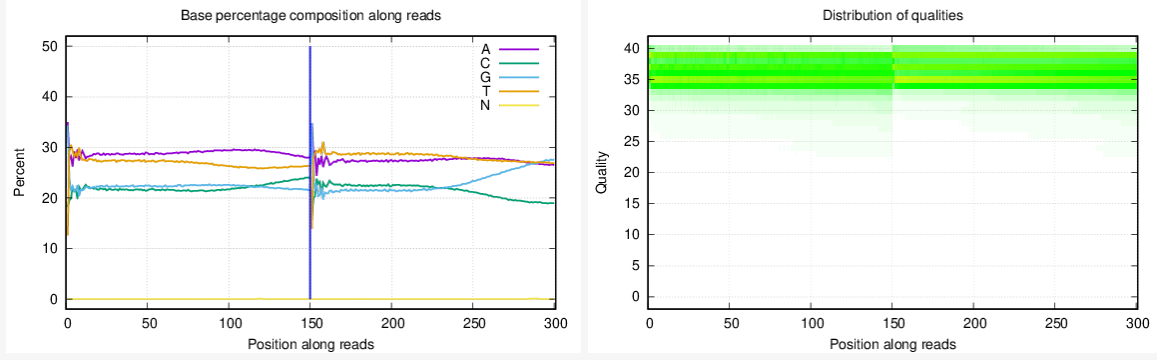
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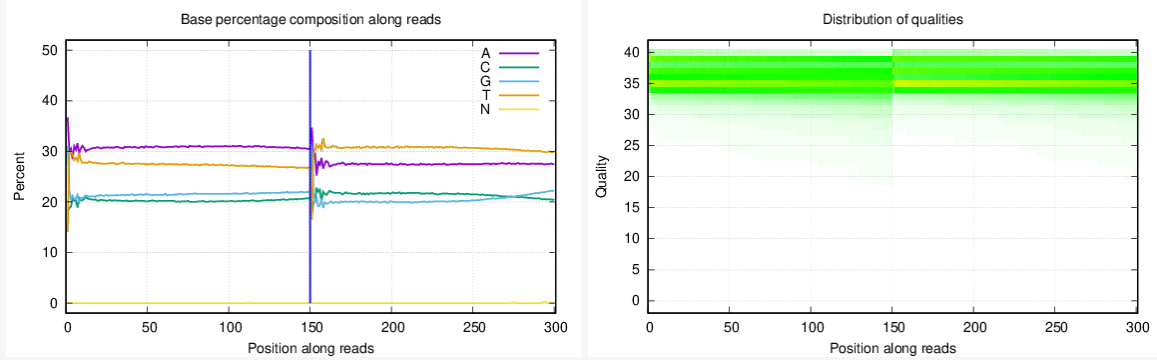
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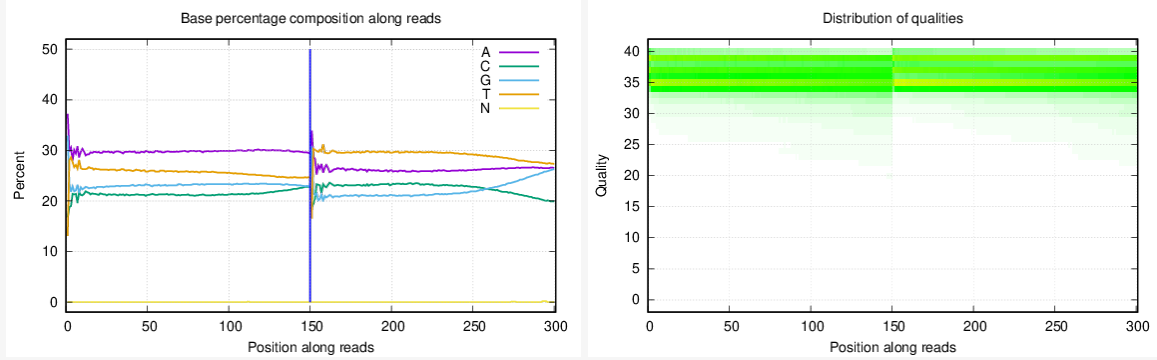
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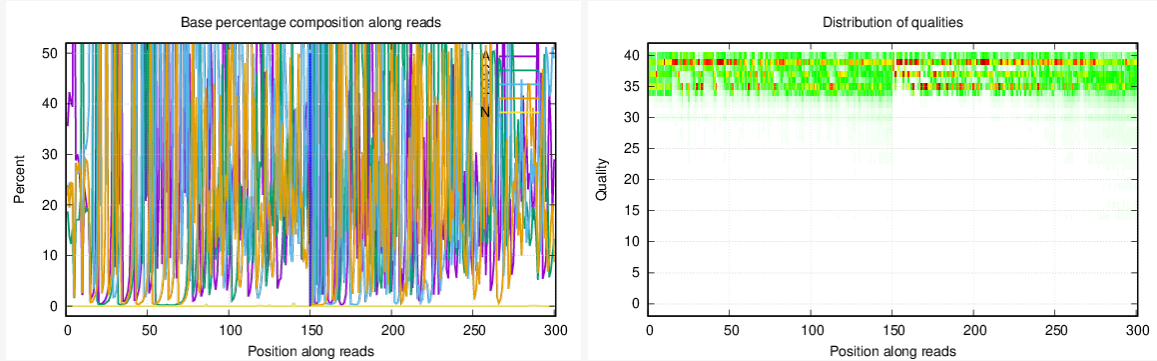
MoPh7\_H3K9me3\_r1



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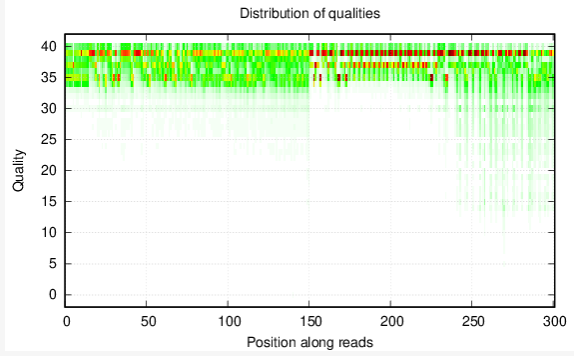
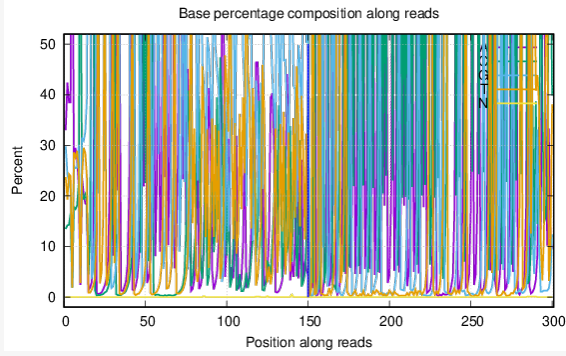


NPC\_63-1C16\_1

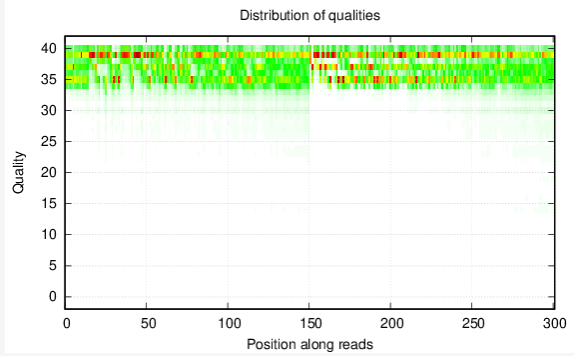
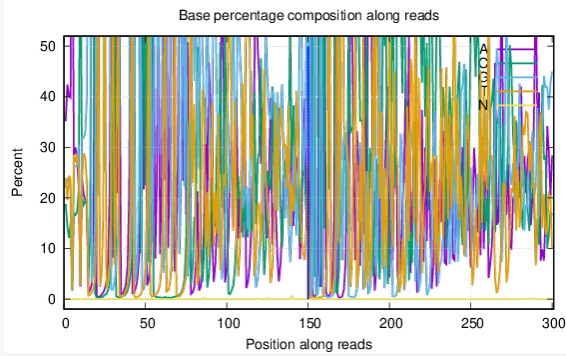


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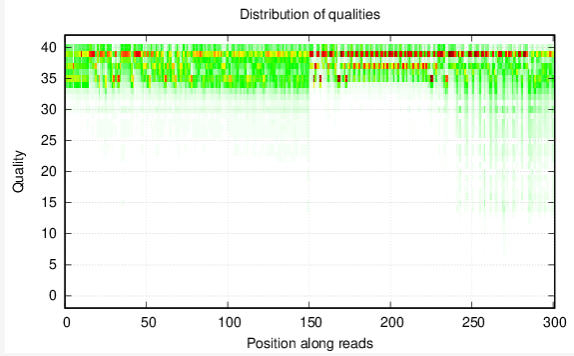
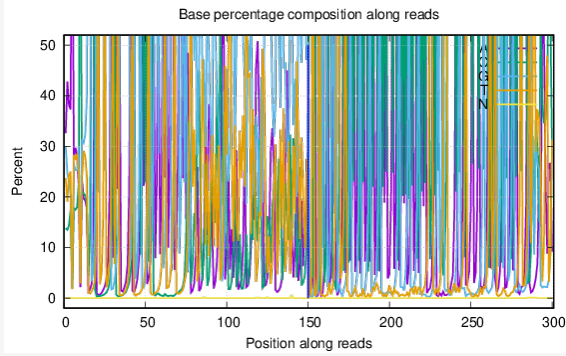




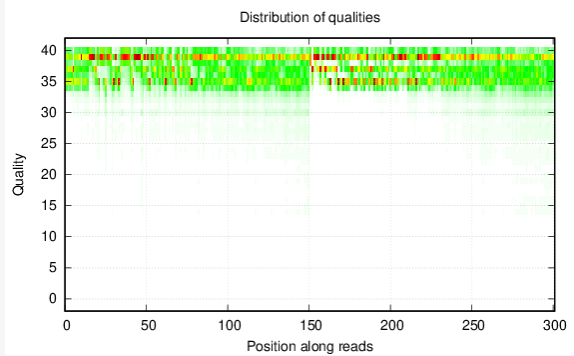
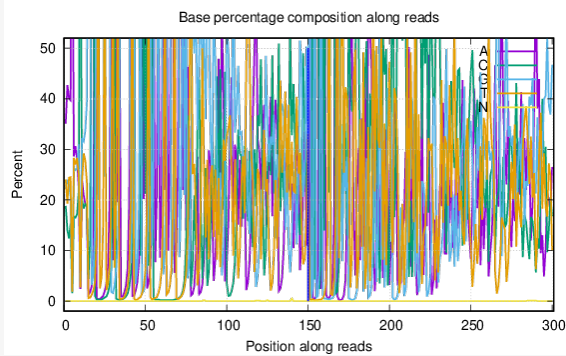
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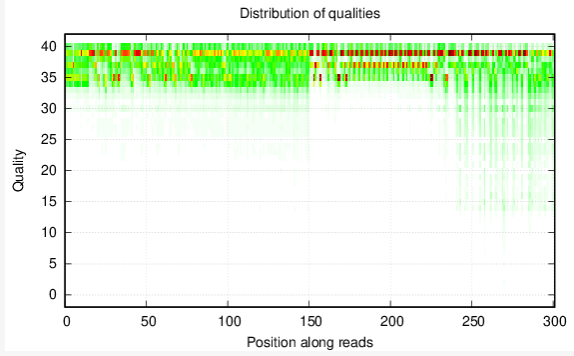
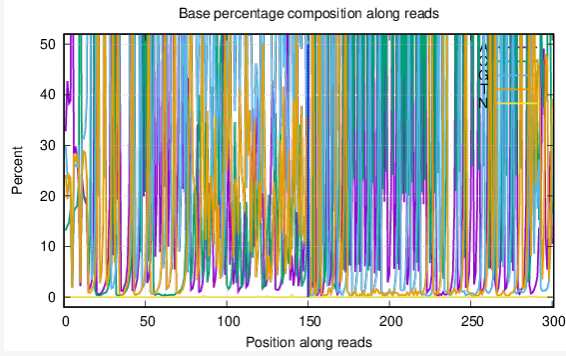
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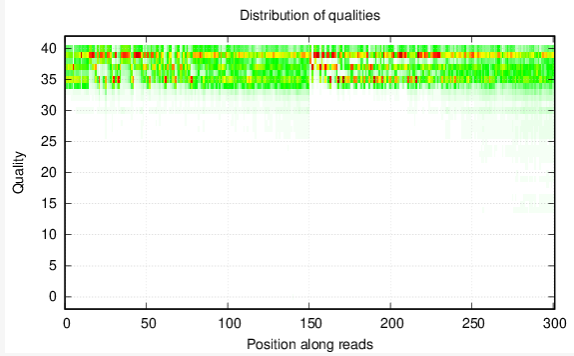
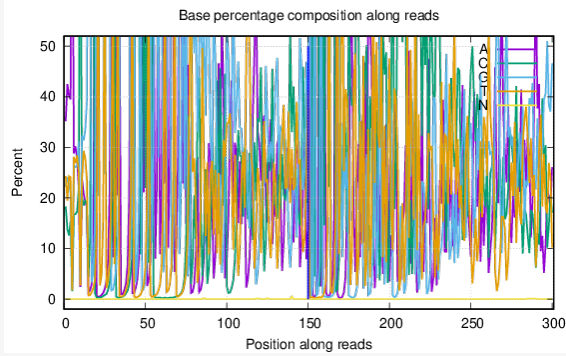
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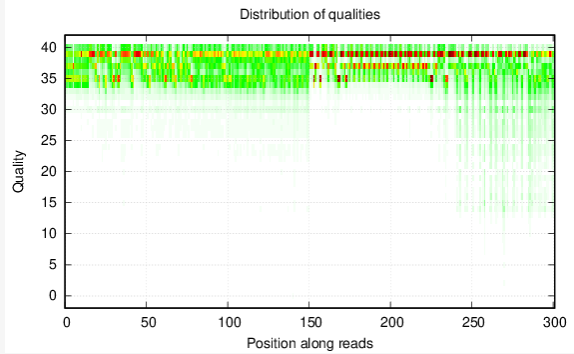
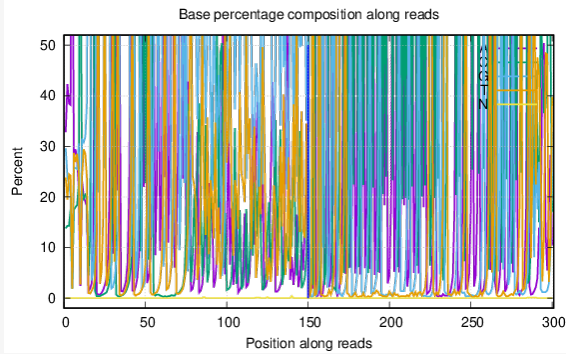
NPC\_63-2A24\_2



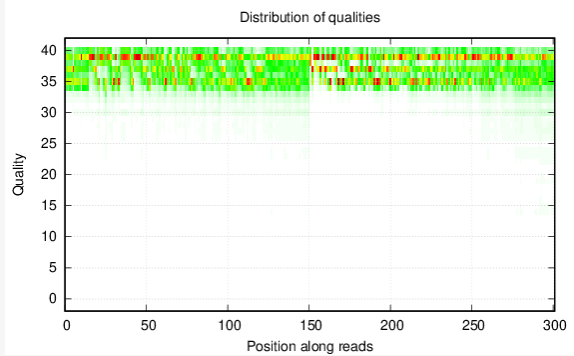
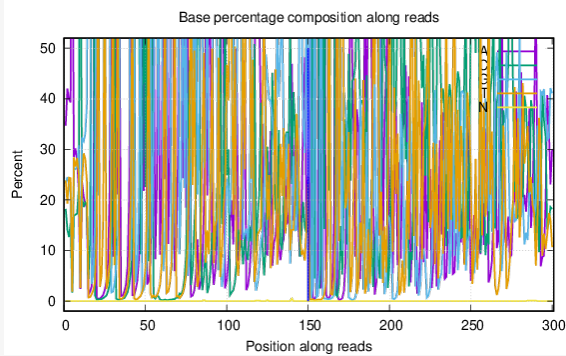
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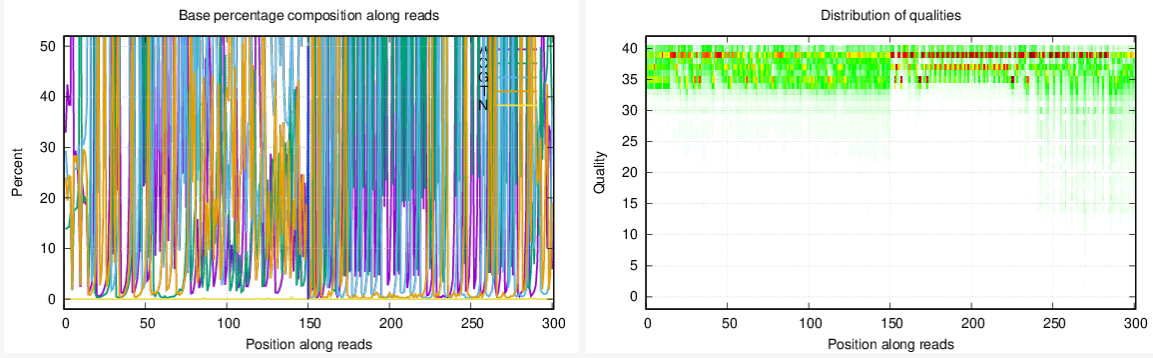
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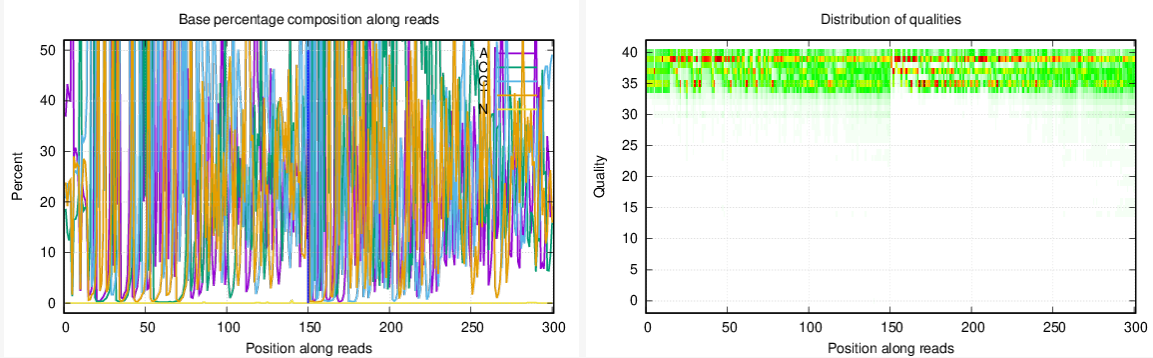
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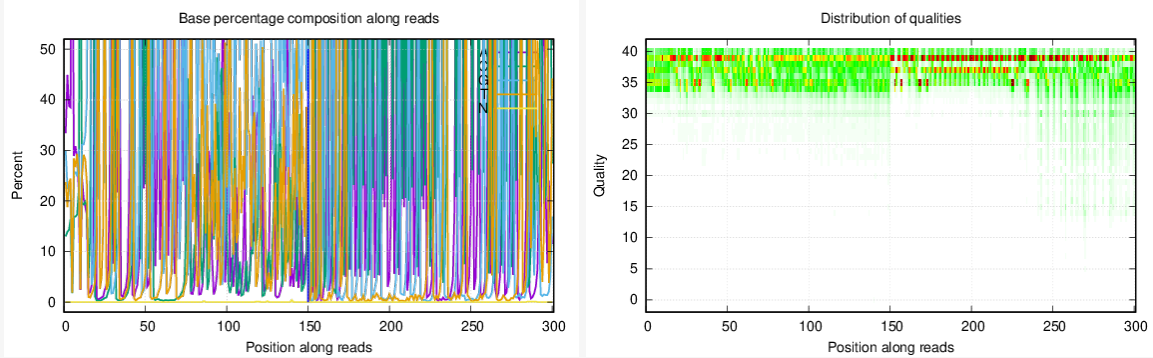
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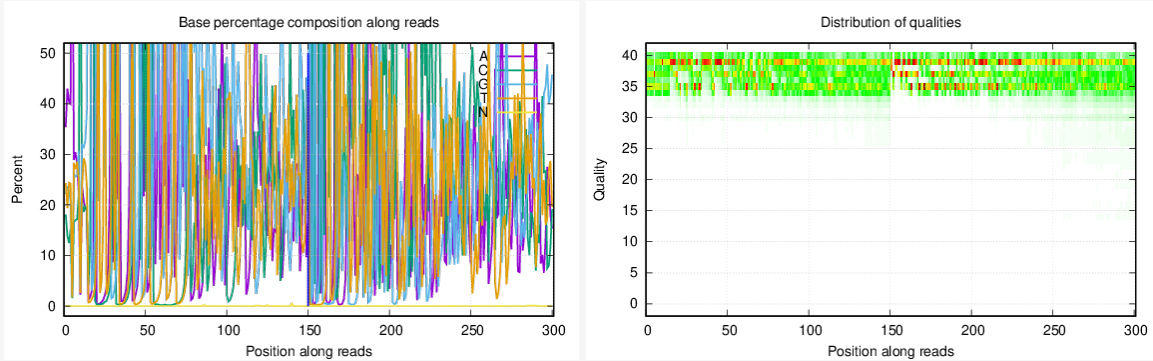
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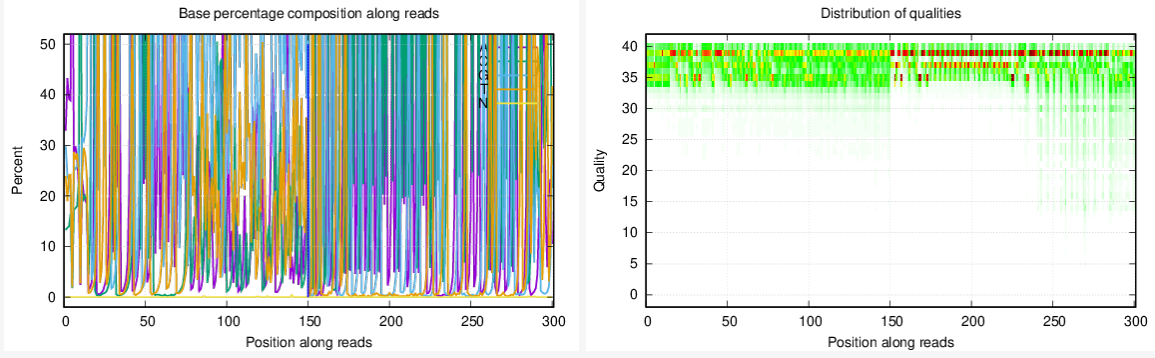
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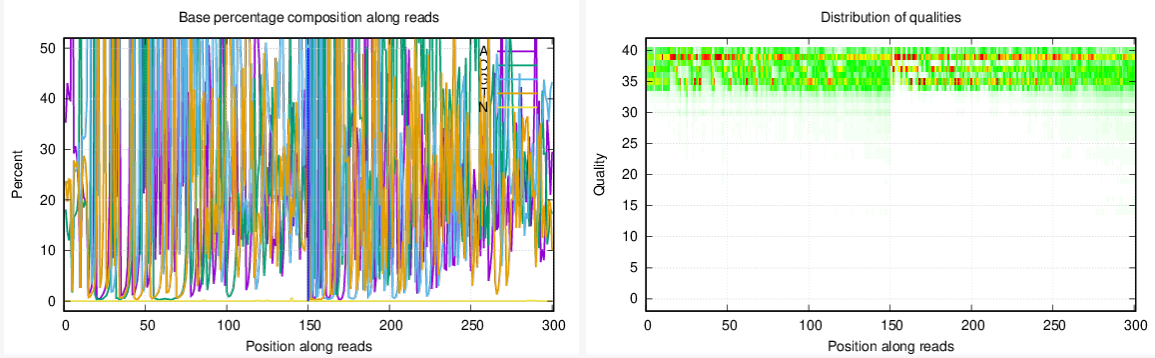
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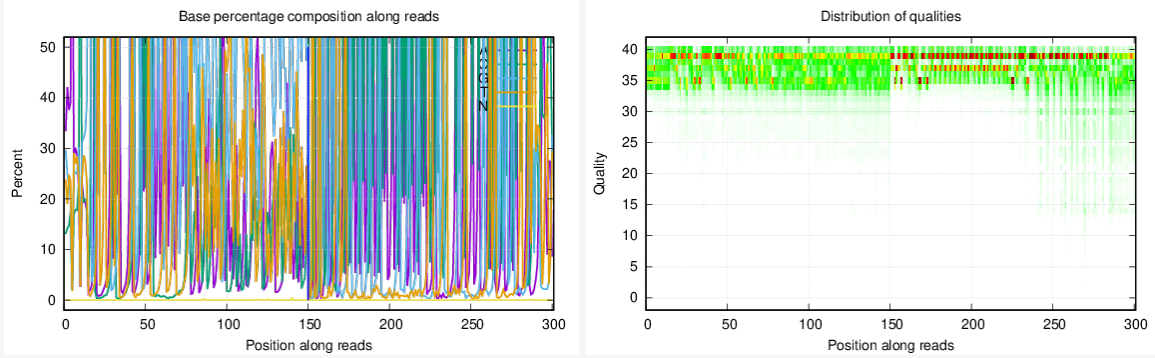
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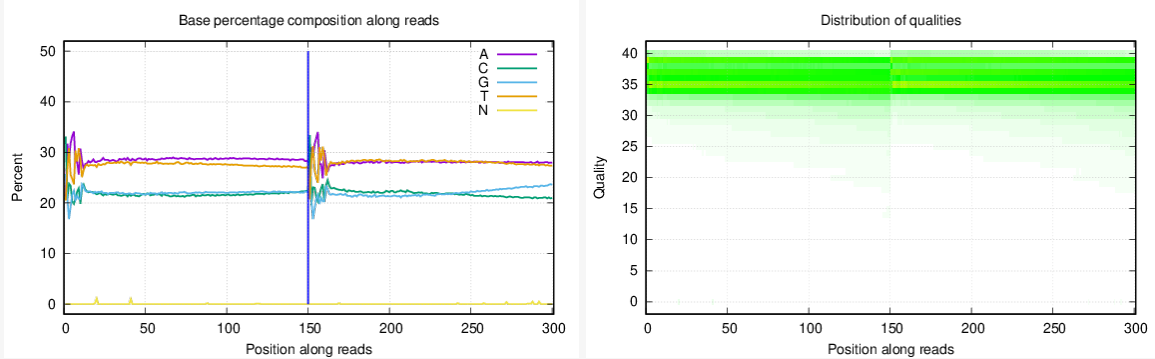
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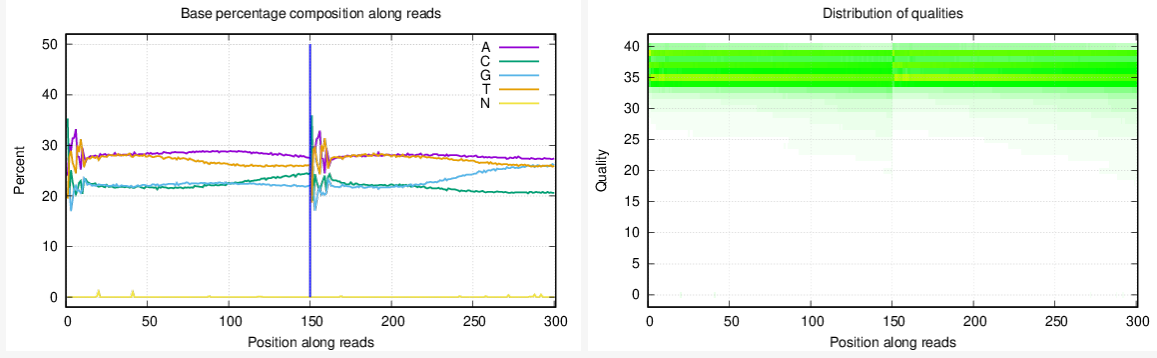
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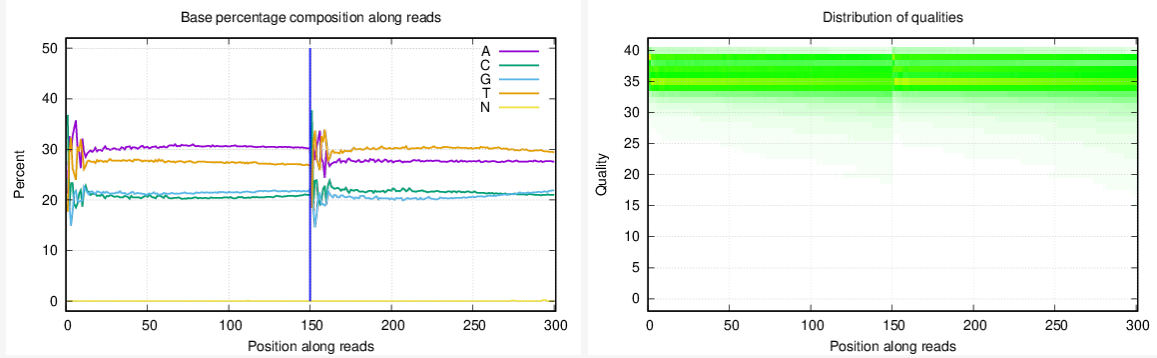
Vla4\_K



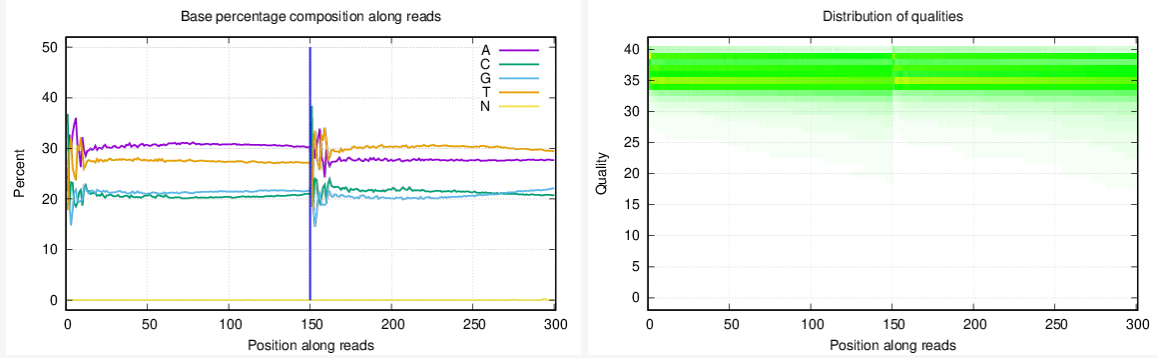
Vla7\_K



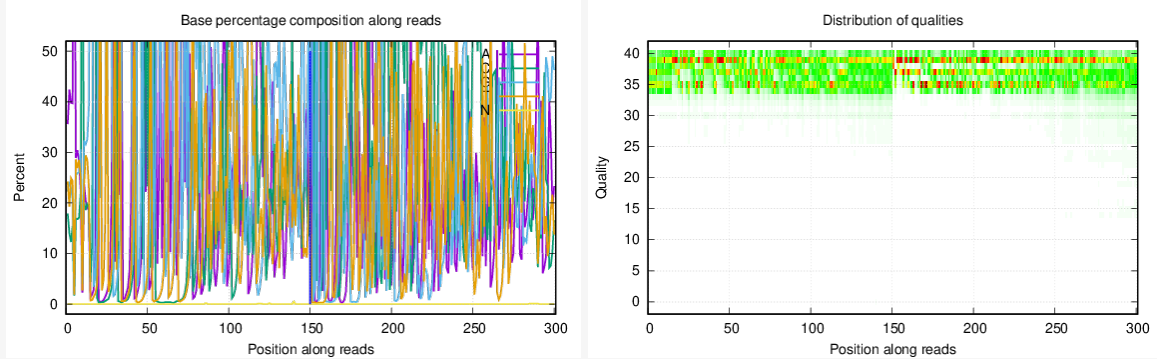
Zap\_K2



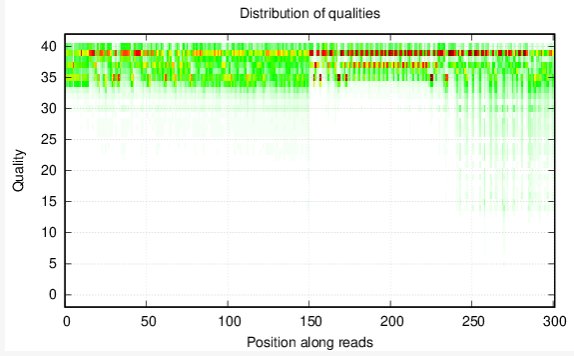
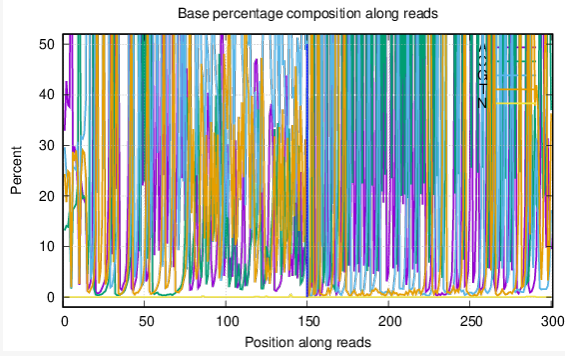
Zap\_e3



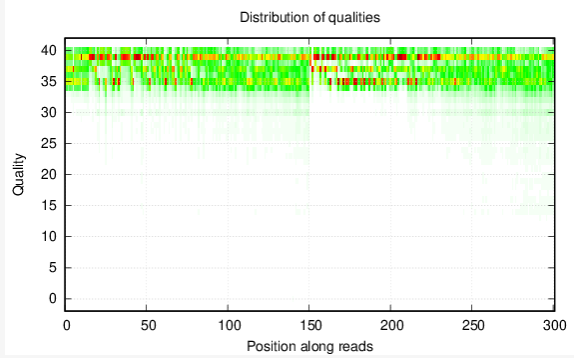
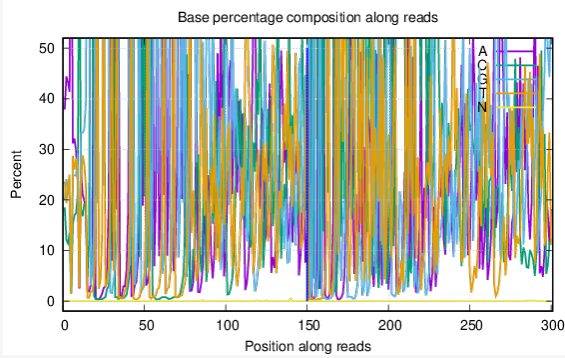
iP63-1C16\_1



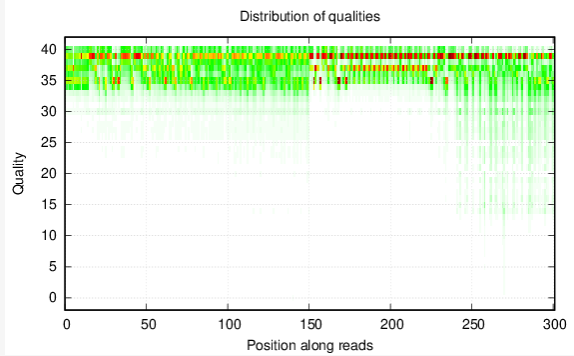
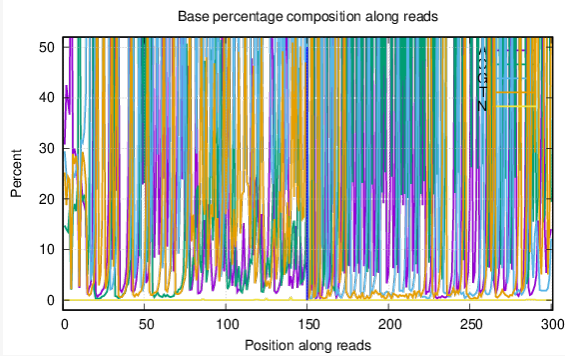
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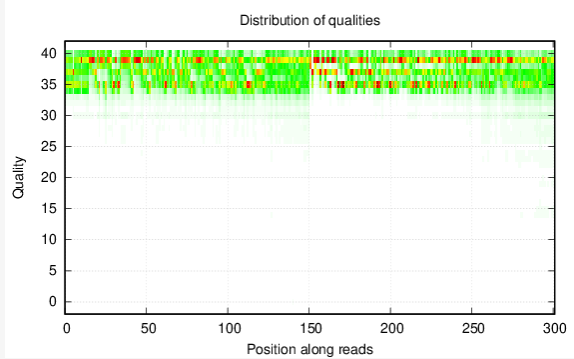
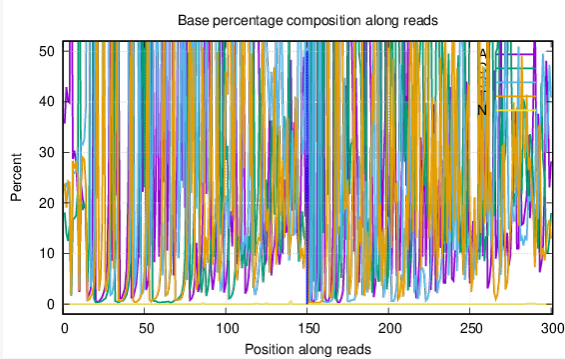
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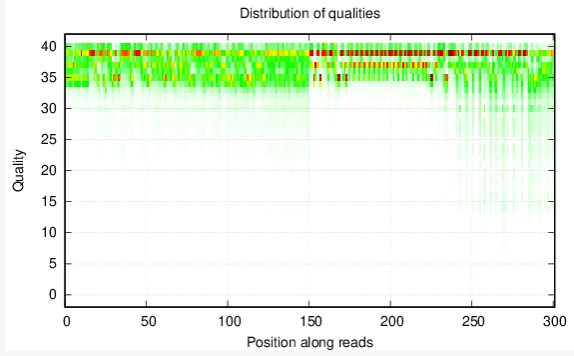
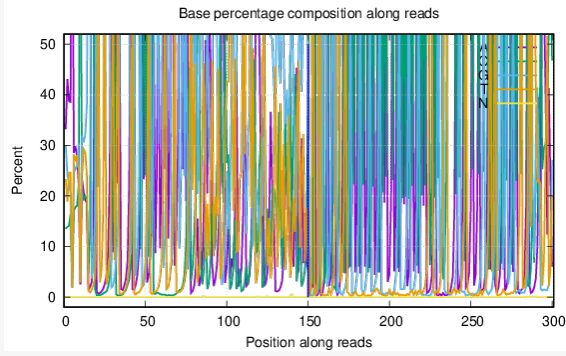
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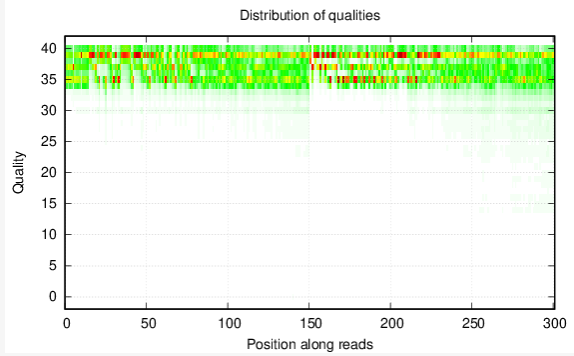
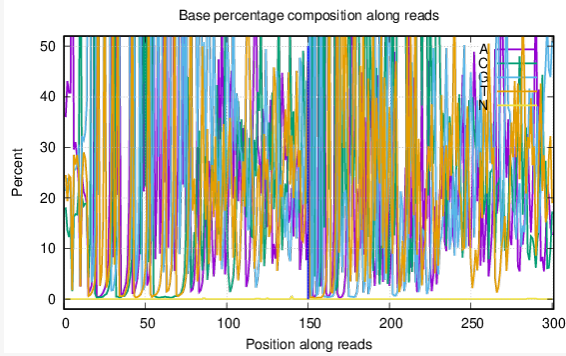
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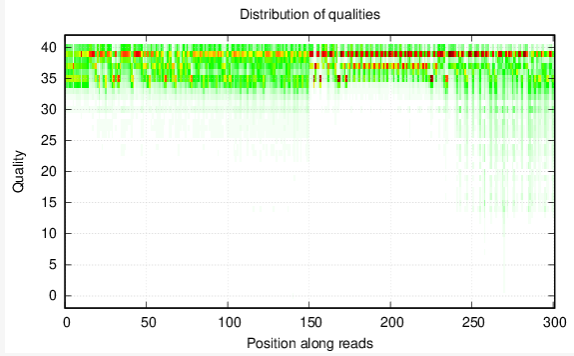
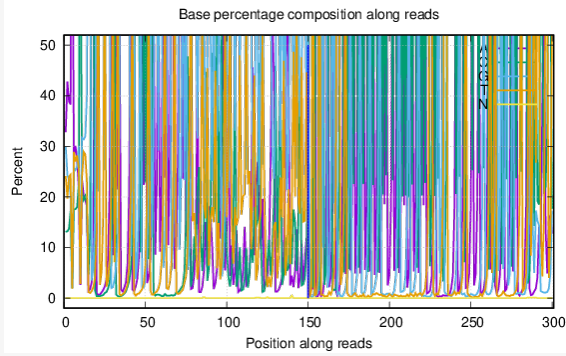
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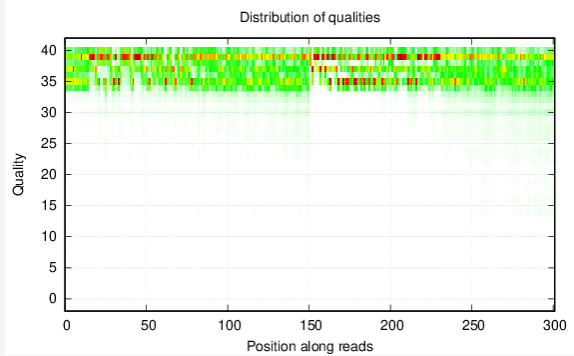
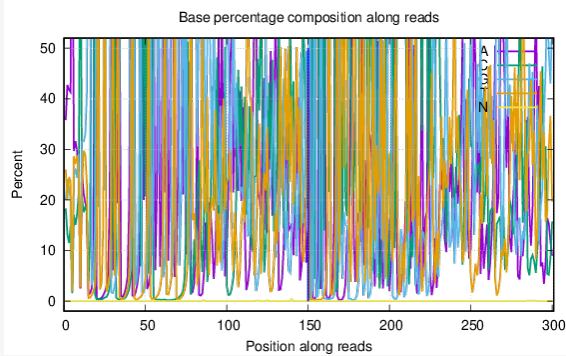
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iP63-2A32\_2

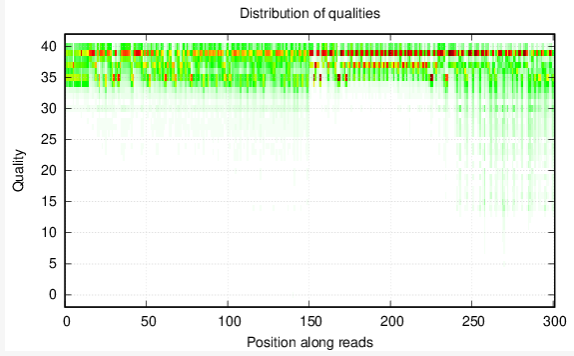
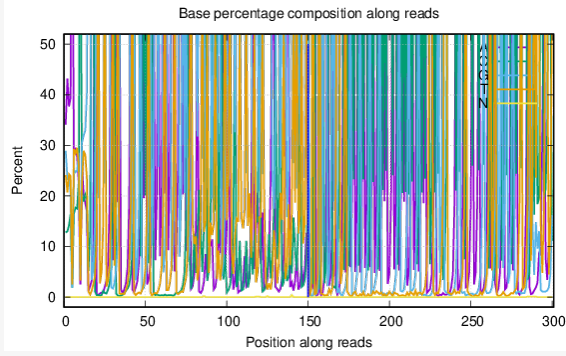


iP63-2C19\_1

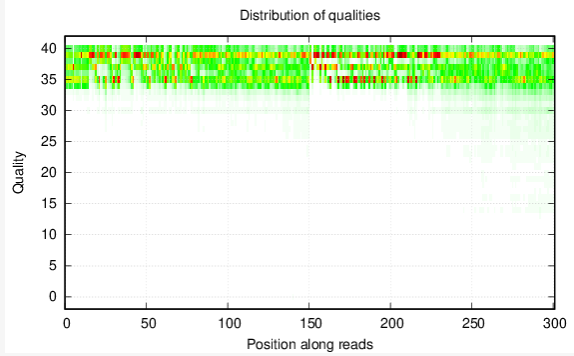
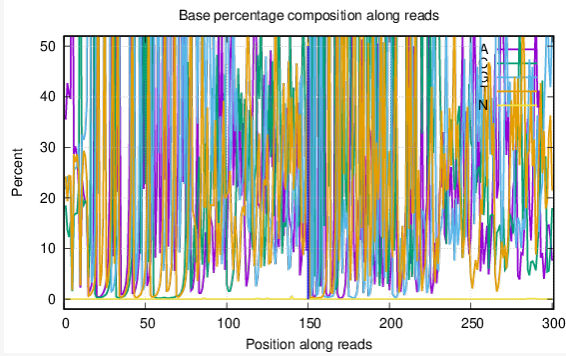


iP63-2C19\_2

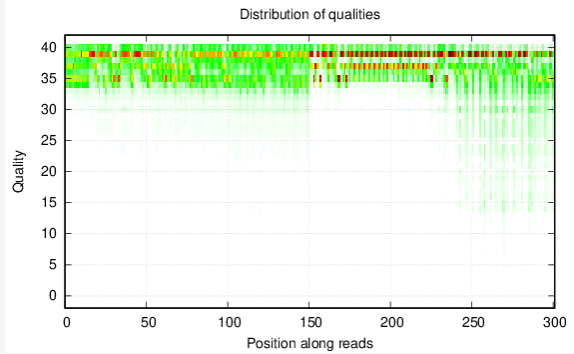
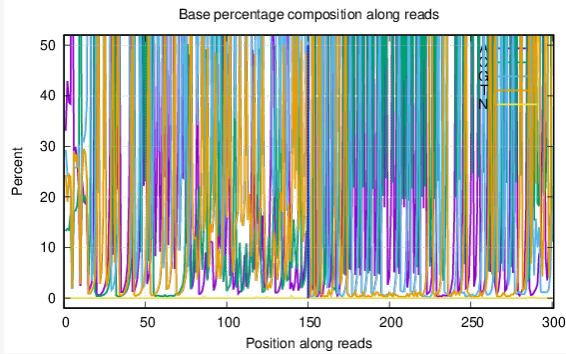




iP63-2C13\_1



iP63-2C13\_2





## Help Document

The original image data is transferred into sequence data via base calling, which is defined as raw data or raw reads and saved as FASTQ file. Each entry in a FASTQ files consists of 4 lines:

1. A sequence identifier with information about the sequencing run and the cluster. The exact contents of this line vary by based on the BCL to FASTQ conversion software used.
2. The sequence (the base calls; A, C, T, G and N).
3. A separator, which is simply a plus (+) sign.
4. The base call quality scores. These are Phred +33 encoded, using ASCII characters to represent the numerical quality scores.

Here is an example of a single entry in a FASTQ file:

```
@V300029029L1C001R0010000210/1
GCGACCCCAGGTCAGTCGGGACTACCCGCTGAAGTCGGAGGCCAAGCGGT
+
FFFCFFFFFFFFFDFFFEFEF0FFFFFFFFFFFFFFFFFEFFFFECGFFFF
```

The relationship between DNBSEQ sequencer sequencing error rate and the sequencing quality value is shown in the following formula. Specifically, if the sequencing error rate is denoted as "E", DNBSEQ sequencer base quality value is denoted as "sQ", the relationship is as follows:

$$sQ = -10\log_{10} E$$

Sequencing error rate	Sequencing quality value	Character of Phred +33 quality system
5%	13	.
1%	20	5
0.1%	30	?



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