

Sequencing Data Report

Project: F25A430000584_MUSzowvR

Date: 2025.8.28

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 136 samples in this project, the statistics of fastq data is shown below.

Sample	Length	Q20(%)	Q30(%)	GC Content(%)	Total Reads	Total Bases
10	150;150	94.9;94.12	84.76;82.13	39.05;38.55	15,042	4,512,600
16	150;150	97.99;97.86	93.51;93.46	45.89;45.87	18,836,171	5,650,851,300
18	150;150	98.15;98.17	93.98;94.23	46.06;46.02	22,365,118	6,709,535,400
2	150;150	97.96;97.71	93.33;92.85	45.28;45.22	19,316,429	5,794,928,700
2N	150;150	98.5;99.12	95.04;96.71	38.49;38.25	25,192,103	7,557,630,900
3	150;150	98.23;99.06	94.13;96.43	36.81;36.44	31,568,242	9,470,472,600
37	150;150	98.09;98.05	93.75;93.81	44.83;44.76	14,766,365	4,429,909,500
4C_PFA_1_2day_1_lig	150;150	98.0;98.26	92.89;93.33	46.47;47.41	3,232,718	969,815,400
4C_PFA_2_2day_3_lig	150;150	97.94;98.17	92.72;92.94	46.24;47.21	2,405,146	721,543,800
4C_PFA_2_2day_4_lig	150;150	96.73;97.62	89.9;92.21	47.48;47.11	697	209,100
4C_PFA_2_3day_wo_Kl_9_lig	150;150	98.16;98.57	93.49;94.42	45.42;46.74	3,127,836	938,350,800
4C_PFA_2_4day_5_lig	150;150	97.92;98.54	92.68;94.23	44.11;44.88	1,276,449	382,934,700
4C_PFA_2_4day_6_lig	150;150	96.81;98.44	89.26;94.0	45.17;46.05	442,504	132,751,200
8	150;150	98.41;99.06	94.7;96.45	38.02;37.68	31,180,469	9,354,140,700
A	150;150	98.22;98.54	94.08;94.73	38.81;38.88	9,075,723	2,722,716,900
C	150;150	98.19;99.25	94.05;97.1	39.34;39.5	58,789,324	17,636,797,200
C10-R3	150;150	97.56;98.57	91.65;94.62	47.67;47.7	18,212,895	5,463,868,500
C10_a-R3	150;150	97.55;98.53	91.69;94.52	47.32;47.18	23,520,072	7,056,021,600
CenP	150;150	97.85;98.36	93.1;94.13	43.83;43.88	17,526,400	5,257,920,000
Cen_B7	150;150	97.52;97.71	91.86;91.57	45.19;45.16	7,671,178	2,301,353,400
Cen_B8	150;150	97.43;97.88	91.72;92.25	45.33;45.4	5,337,582	1,601,274,600
Esh4_K1	150;150	97.47;98.17	91.65;93.07	44.27;44.25	734,640	220,392,000
G2209	150;150	97.66;98.21	92.5;93.78	47.34;47.32	675,914	202,774,200
G3037	150;150	97.58;98.28	92.22;93.96	46.73;46.76	794,749	238,424,700
G375	150;150	97.36;97.99	91.56;92.98	46.49;46.59	839,268	251,780,400
G7591	150;150	97.46;98.2	91.89;93.7	47.03;46.97	745,066	223,519,800
G7798	150;150	97.63;97.94	92.34;92.81	46.69;46.74	535,390	160,617,000
G7824	150;150	97.54;97.78	92.08;92.22	46.25;46.42	705,275	99,592,500

Data Statistics

G7824	150;150	97.54;97.18	92.08;92.23	48.33;48.43	233,213	88,382,300
G7828	150;150	97.49;97.93	91.96;92.79	46.41;46.45	911,475	273,442,500
G7919	150;150	97.08;97.92	90.71;92.67	46.37;46.51	657,215	197,164,500
G8017	150;150	97.16;97.77	90.96;92.24	47.25;47.24	642,387	192,716,100
IP_1_25_10	150;150	98.57;99.06	95.18;96.59	48.01;48.19	1,566,079	469,823,700
IP_1_25_19	150;150	97.44;99.11	91.66;96.8	48.63;48.61	1,104,637	331,391,100
IP_1_25_3	150;150	98.22;98.99	94.05;96.42	48.79;49.12	1,322,658	396,797,400
Km	150;150	97.73;97.39	92.81;92.19	44.67;44.66	10,311,647	3,093,494,100
Kr	150;150	97.87;97.95	93.03;93.48	41.19;41.12	21,590,138	6,477,041,400
MMC	150;150	97.43;98.36	91.49;93.74	44.02;43.98	102,192,512	30,657,753,600
MMC2	150;150	97.57;98.45	91.95;94.09	44.3;44.37	102,492,299	30,747,689,700
MMC_aux	150;150	97.79;98.44	92.61;94.09	44.4;44.43	100,846,753	30,254,025,900
MMC_aux2	150;150	97.89;98.43	92.86;94.03	44.53;44.62	97,173,731	29,152,119,300
MoPh11_enr_v2	150;150	97.11;98.61	90.71;94.97	45.21;45.36	101,493,416	30,448,024,800
MoPh14_enr_v2	150;150	97.69;98.62	92.49;95.04	45.15;44.98	74,600,652	22,380,195,600
MoPh15_enr_v2	150;150	97.91;98.54	93.1;94.68	44.79;44.74	66,400,679	19,920,203,700
MoPh7_enr_v2	150;150	97.48;98.83	91.79;95.76	45.08;45.89	89,189,476	26,756,842,800
P215	150;150	97.45;98.04	91.84;93.16	46.75;46.84	773,133	231,939,900
P216	150;150	97.78;98.49	92.9;94.78	47.97;47.88	1,076,975	323,092,500
RS1	150;150	97.19;98.63	91.03;95.2	46.62;46.9	2,815,111	844,533,300
RS10	150;150	97.47;98.52	91.94;94.87	47.24;47.37	2,291,616	687,484,800
RS11	150;150	97.4;98.63	91.74;95.25	46.99;47.0	2,189,301	656,790,300
RS12	150;150	97.61;98.46	92.34;94.66	47.11;47.1	2,108,385	632,515,500
RS13	150;150	97.99;98.46	93.51;94.68	47.6;47.42	1,959,422	587,826,600
RS14	150;150	97.24;98.56	91.24;94.99	47.29;47.35	1,577,328	473,198,400
RS15	150;150	96.91;98.67	90.27;95.39	47.53;47.49	1,928,898	578,669,400
RS16	150;150	97.94;98.56	93.36;95.0	47.34;47.32	2,357,401	707,220,300
RS17	150;150	97.69;98.48	92.56;94.7	47.22;47.18	2,874,195	862,258,500
RS18	150;150	97.71;98.54	92.65;94.91	46.75;46.91	1,764,957	529,487,100
RS19	150;150	97.95;98.67	93.41;95.38	47.09;47.16	2,014,089	604,226,700
RS2	150;150	96.92;98.44	90.3;94.61	46.77;46.81	1,736,776	521,032,800
RS20	150;150	97.27;98.73	91.32;95.6	47.27;47.38	1,847,668	554,300,400
RS21	150;150	97.61;98.45	92.38;94.61	47.34;47.47	2,250,899	675,269,700

Data Statistics

RS22	150;150	97.83;98.52	93.06;94.91	47.65;47.56	1,815,354	544,606,200
RS23	150;150	97.93;98.57	93.32;95.02	47.25;47.32	3,775,296	1,132,588,800
RS24	150;150	98.17;98.5	94.09;94.81	47.46;47.47	2,202,177	660,653,100
RS25	150;150	97.36;98.53	91.62;94.94	46.79;46.87	4,210,458	1,263,137,400
RS26	150;150	97.93;98.54	93.34;94.93	47.26;47.22	2,493,133	747,939,900
RS27	150;150	98.09;98.6	93.84;95.14	47.37;47.27	1,655,527	496,658,100
RS28	150;150	97.88;98.6	93.2;95.11	47.24;47.4	1,744,429	523,328,700
RS29	150;150	96.76;98.8	89.84;95.83	47.26;47.25	1,761,519	528,455,700
RS3	150;150	97.7;98.5	92.64;94.85	47.31;47.24	2,225,698	667,709,400
RS30	150;150	97.81;98.65	92.96;95.34	46.96;47.03	1,468,348	440,504,400
RS31	150;150	97.15;98.54	91.01;94.99	47.84;47.81	2,119,635	635,890,500
RS32	150;150	97.22;98.5	91.17;94.82	47.48;47.47	2,823,318	846,995,400
RS33	150;150	97.55;98.48	92.17;94.76	47.4;47.3	2,105,437	631,631,100
RS34	150;150	97.98;98.53	93.52;94.91	47.28;47.33	2,020,368	606,110,400
RS35	150;150	97.51;98.53	92.1;94.9	47.18;47.27	1,623,632	487,089,600
RS36	150;150	97.97;98.65	93.47;95.31	47.03;47.0	1,378,850	413,655,000
RS37	150;150	97.86;98.6	93.13;95.15	47.37;47.36	2,724,243	817,272,900
RS38	150;150	97.86;98.49	93.17;94.81	47.7;47.81	1,509,889	452,966,700
RS39	150;150	97.73;98.56	92.74;95.04	47.61;47.79	2,046,801	614,040,300
RS4	150;150	98.07;98.58	93.78;95.04	47.23;47.21	1,908,765	572,629,500
RS40	150;150	97.6;98.42	92.33;94.53	47.15;47.27	2,694,703	808,410,900
RS41	150;150	97.72;98.54	92.71;94.98	47.4;47.49	1,882,481	564,744,300
RS42	150;150	97.98;98.42	93.47;94.52	47.06;47.01	2,543,128	762,938,400
RS43	150;150	97.89;98.56	93.21;95.0	47.52;47.73	1,598,782	479,634,600
RS44	150;150	97.81;98.37	92.97;94.34	47.8;47.96	3,126,494	937,948,200
RS45	150;150	97.86;98.54	93.12;94.96	47.32;47.4	2,221,792	666,537,600
RS46	150;150	97.99;98.54	93.48;94.88	47.38;47.46	2,539,132	761,739,600
RS47	150;150	97.84;98.6	93.08;95.13	47.52;47.62	1,857,197	557,159,100
RS48	150;150	97.67;98.51	92.57;94.85	47.3;47.23	2,655,227	796,568,100
RS49	150;150	97.49;98.54	91.99;94.93	47.4;47.47	2,024,744	607,423,200
RS5	150;150	75.33;95.33	44.67;74.67	45.33;45.33	1	300
RS50	150;150	97.62;98.55	92.42;94.95	47.47;47.48	2,776,815	833,044,500
RS51	150;150	97.5;98.49	92.05;94.76	47.65;47.71	2,247,756	674,326,800

Data Statistics

RS52	150;150	97.96;98.55	93.48;94.95	47.54;47.55	2,506,608	751,982,400
RS53	150;150	97.64;98.43	92.48;94.6	47.63;47.64	1,756,487	526,946,100
RS54	150;150	96.63;98.58	89.48;95.11	47.45;47.42	1,533,999	460,199,700
RS55	150;150	97.99;98.47	93.5;94.67	46.98;47.03	1,714,568	514,370,400
RS56	150;150	97.89;98.47	93.23;94.71	47.48;47.42	2,763,437	829,031,100
RS57	150;150	97.05;98.55	90.71;95.01	47.41;47.43	2,674,472	802,341,600
RS58	150;150	97.87;98.5	93.13;94.79	47.44;47.52	2,093,872	628,161,600
RS59	150;150	98.05;98.58	93.75;95.09	47.14;47.12	2,902,425	870,727,500
RS6	150;150	97.73;98.5	92.73;94.79	47.15;47.29	2,032,565	609,769,500
RS60	150;150	97.8;98.54	92.92;94.92	47.13;47.11	3,167,106	950,131,800
RS7	150;150	98.4;98.68	94.77;95.42	47.31;47.4	2,242,043	672,612,900
RS8	150;150	97.76;98.62	92.81;95.23	47.16;47.35	2,170,230	651,069,000
RS9	150;150	97.88;98.58	93.22;95.09	46.75;46.76	2,934,714	880,414,200
Sav2_K1	150;150	97.7;98.91	92.38;95.96	49.48;49.51	2,460,369	738,110,700
Vvu310	150;150	98.74;99.42	95.88;97.98	45.81;46.01	3,582,217	1,074,665,100
Vvu313	150;150	98.7;99.41	95.75;97.99	45.9;46.05	4,003,987	1,201,196,100
Vvu315	150;150	98.85;99.44	96.27;98.07	44.95;45.13	4,422,683	1,326,804,900
Vvu369	150;150	98.66;99.41	95.63;97.86	45.66;45.83	4,285,230	1,285,569,000
Vvu493	150;150	98.79;99.44	96.06;98.02	45.82;45.96	4,094,499	1,228,349,700
Vvu494	150;150	98.71;99.37	95.79;97.82	45.19;45.33	4,728,730	1,418,619,000
Vvu542	150;150	98.06;99.04	94.25;96.78	46.03;46.31	296	88,800
Vvu543	150;150	98.59;99.07	95.51;96.9	45.83;45.39	125	37,500
Vvu544	150;150	98.26;98.1	94.81;93.68	45.97;45.97	714	214,200
Vvu545	150;150	98.98;99.04	96.56;97.31	45.88;46.11	700	210,000
Y226A_a-R1	150;150	97.32;97.58	90.62;90.24	43.11;43.32	13,446,088	4,033,826,400
brInt-R1	150;150	97.79;98.53	92.37;94.24	44.68;45.06	14,717,059	4,415,117,700
brInt_a-R1	150;150	98.16;98.46	93.54;94.28	47.57;47.83	16,837,340	5,051,202,000
brLinker_a_R1	150;150	95.66;95.4	86.43;84.41	49.85;49.92	699,745	209,923,500
brNTD-R2	150;150	97.75;98.19	92.04;92.76	42.99;43.06	23,787,874	7,136,362,200
hCTCF_R4	150;150	96.59;96.17	88.78;86.35	46.0;46.13	466,956	140,086,800
hCTCF_a_R4	150;150	96.6;96.38	88.78;87.0	45.39;45.44	910,196	273,058,800
iP149-1	150;150	97.55;98.07	91.56;92.48	44.67;44.6	51,274,666	15,382,399,800

Data Statistics

mpa_comar_2	150;150	97.31;97.68	91.19;91.52	46.22;46.87	11,578,642	3,473,592,600
mutR29W-R2	150;150	98.08;98.6	93.27;94.57	45.21;45.37	22,729,248	6,818,774,400
mutR29W-R4	150;150	98.16;98.55	93.62;94.55	46.15;45.98	13,952,276	4,185,682,800
mutR29W_a-R2	150;150	98.2;98.65	93.64;94.71	45.16;45.12	17,803,314	5,340,994,200
mutR29W_a-R4	150;150	97.74;98.52	92.32;94.43	45.56;45.76	17,011,408	5,103,422,400
mutY226A-R3	150;150	98.02;98.58	93.15;94.64	45.29;45.32	14,750,178	4,425,053,400
mutY226A_a-R3	150;150	97.21;98.76	90.59;95.27	47.0;47.04	13,349,191	4,004,757,300
mutY226C-R3	150;150	97.92;98.53	92.8;94.45	47.59;47.83	15,274,978	4,582,493,400
mutY226C_R2	150;150	98.36;98.93	94.21;95.89	45.41;45.13	40,121,776	12,036,532,800
mutY226C_a-R3	150;150	98.52;98.69	94.75;95.1	47.68;47.34	28,485,441	8,545,632,300
mutY226C_a_R2	150;150	98.53;98.92	94.78;95.83	45.47;45.65	39,222,512	11,766,753,600

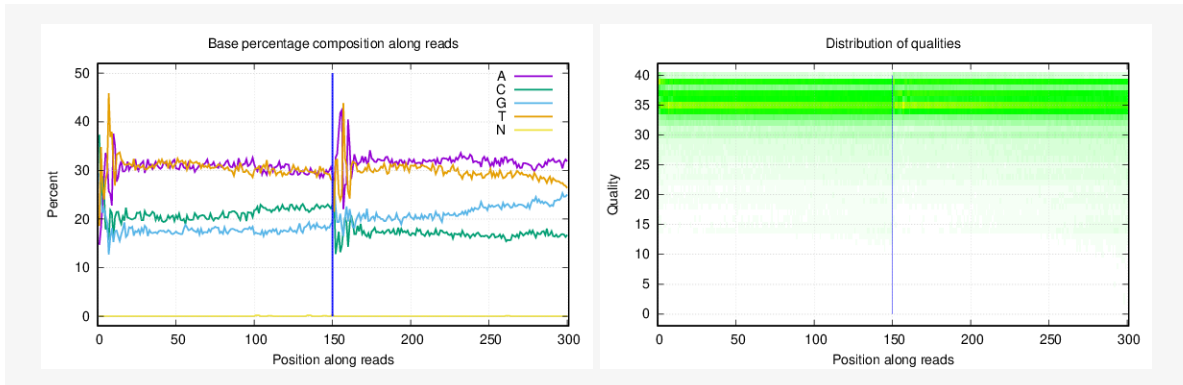
Table Format:

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

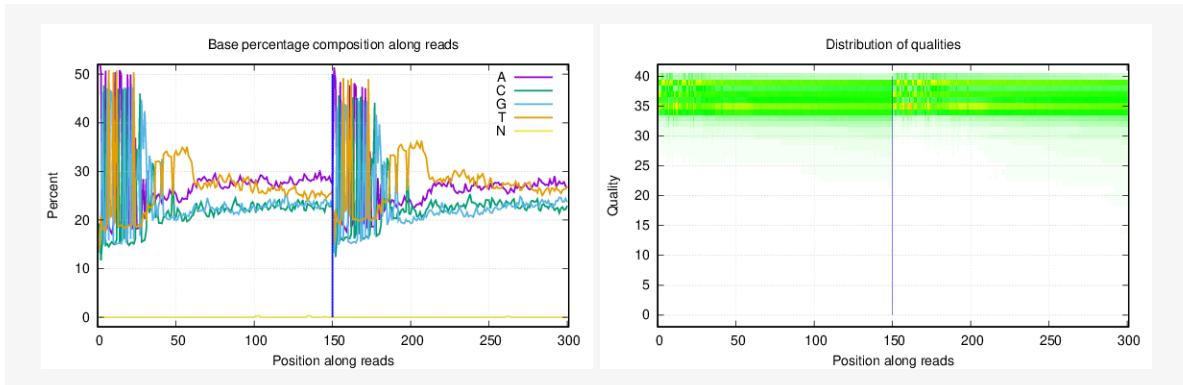
Data Quality Control

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.

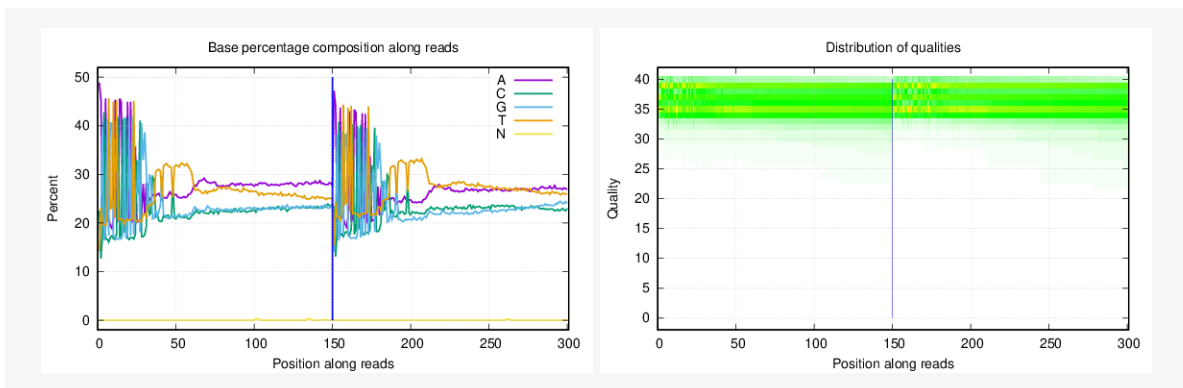
10



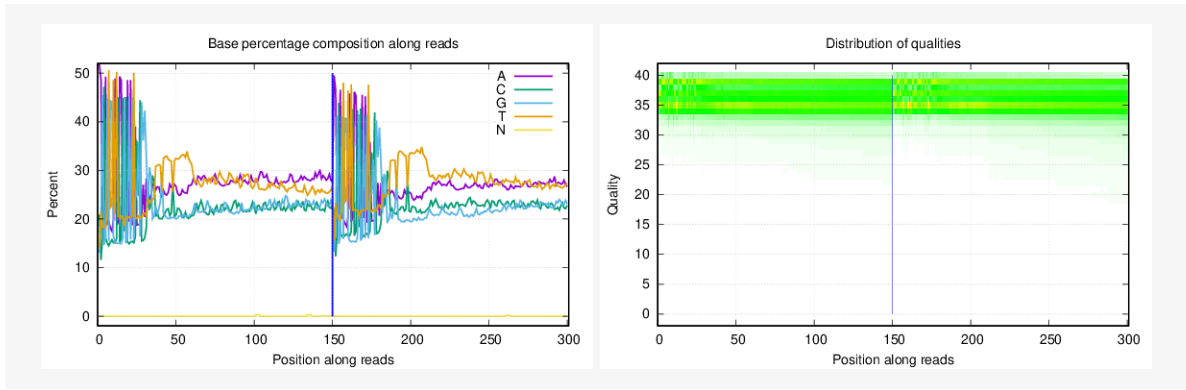
16



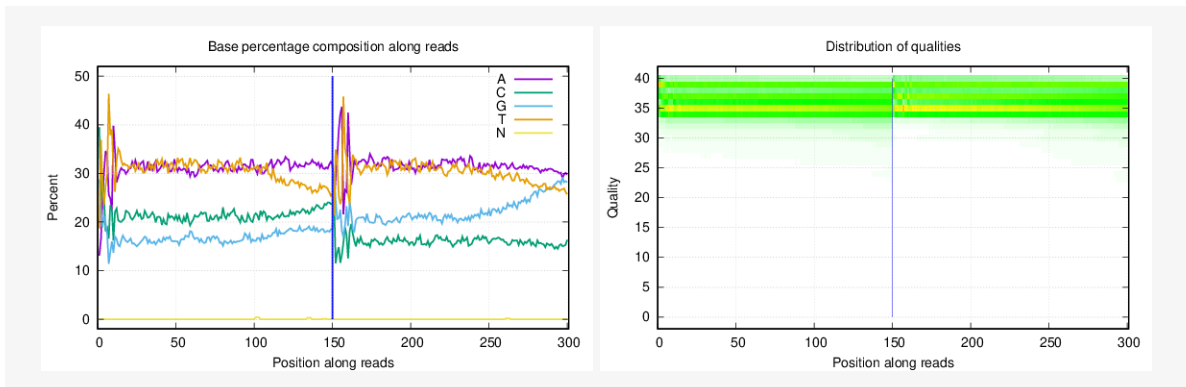
18



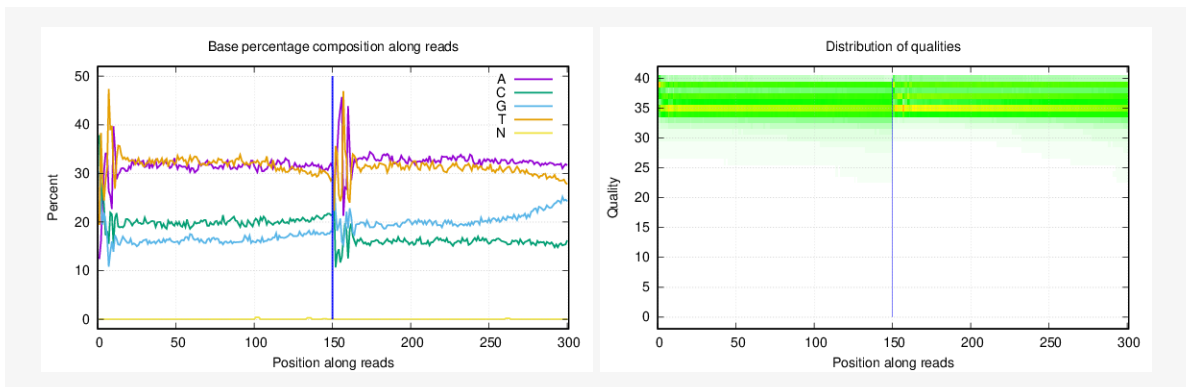
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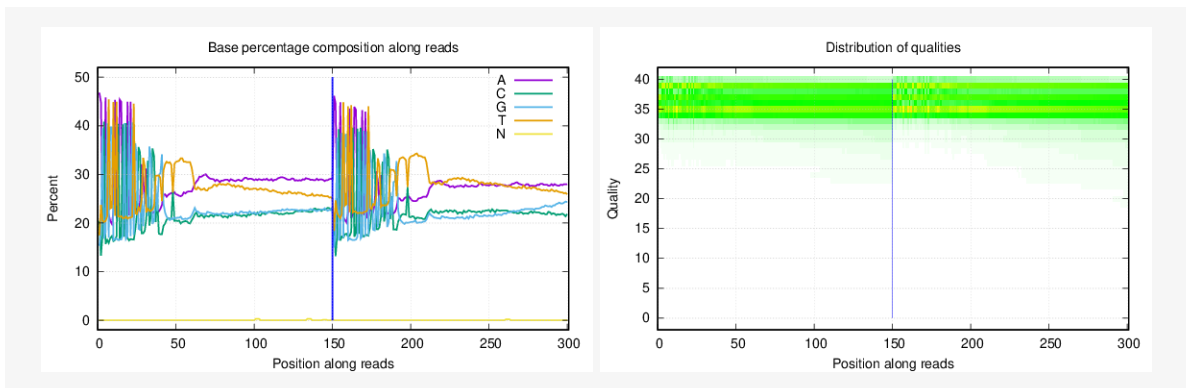
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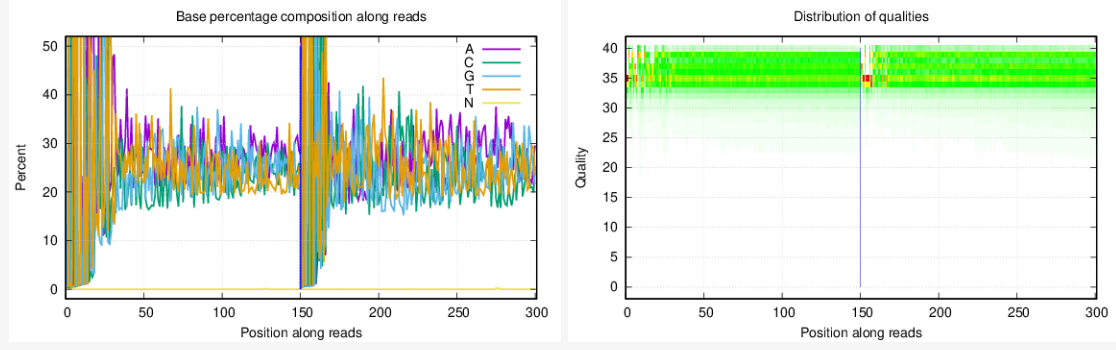
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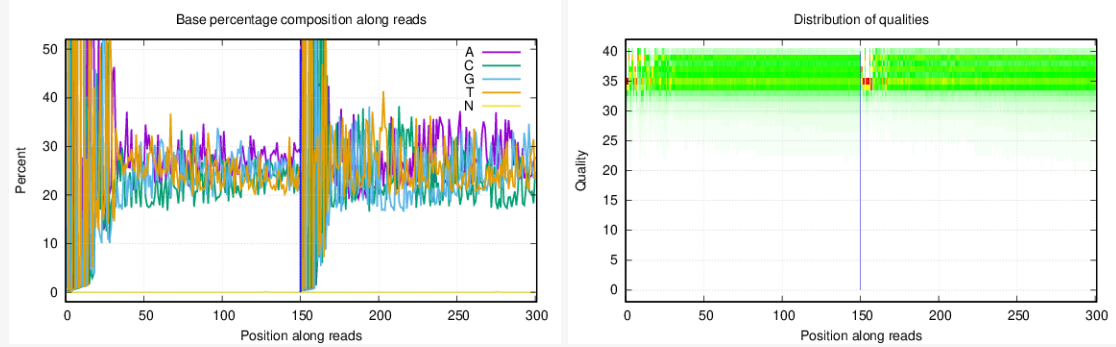
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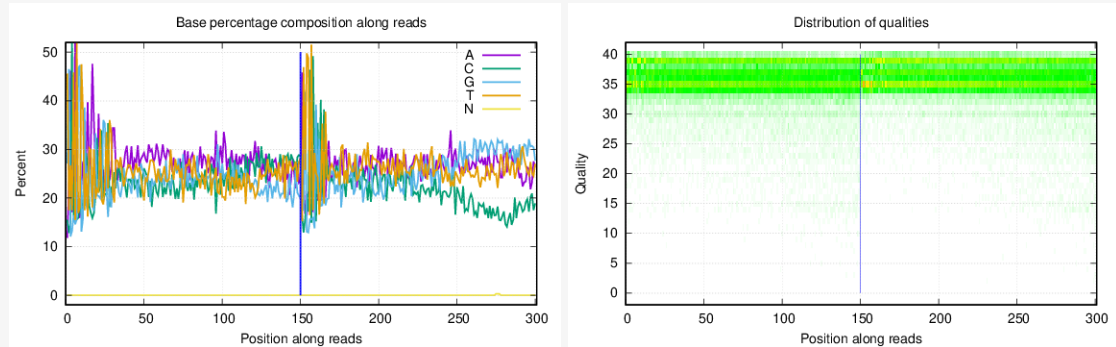
4C_PFA_1_2day_1_lig



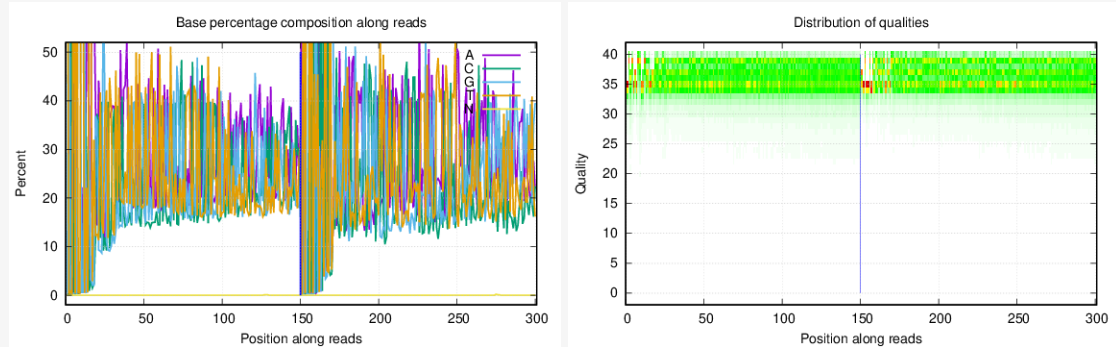
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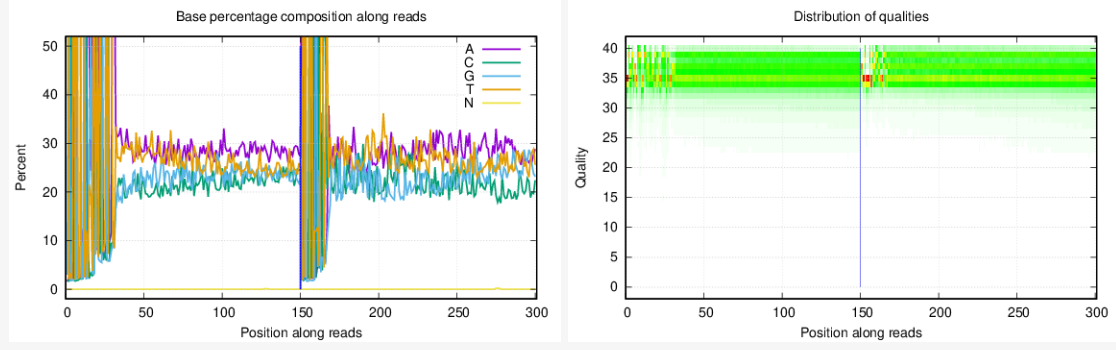
4C_PFA_2_2day_4_lig



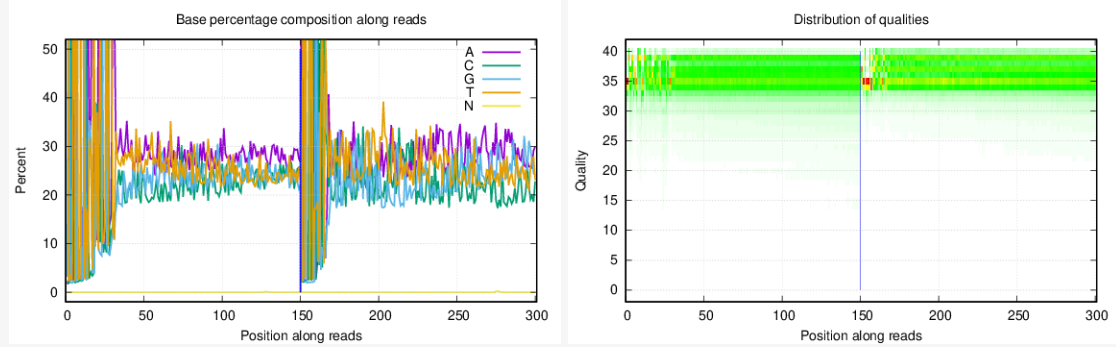
4C_PFA_2_3day_wo_Kl_9_lig



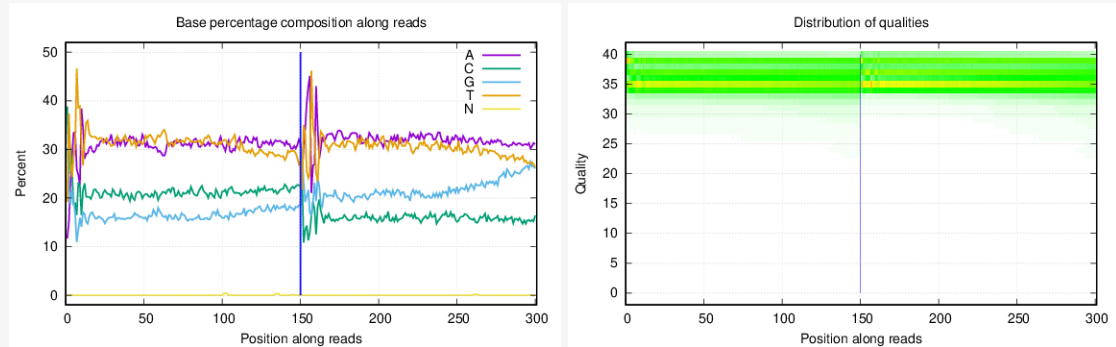
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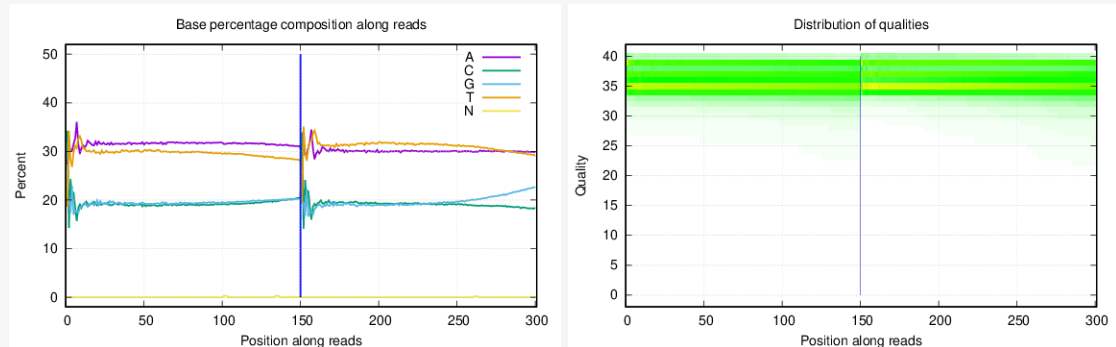
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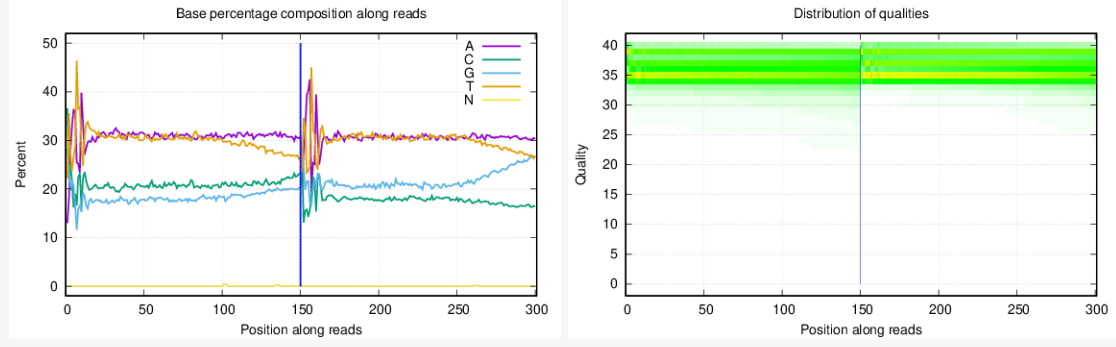
8



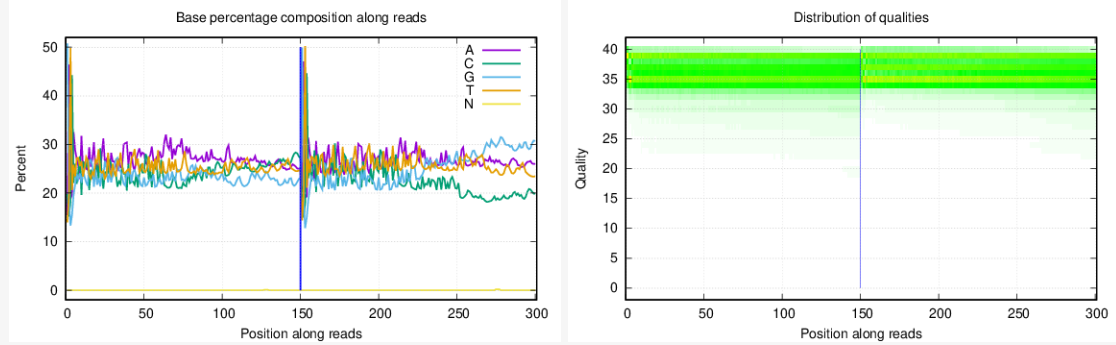
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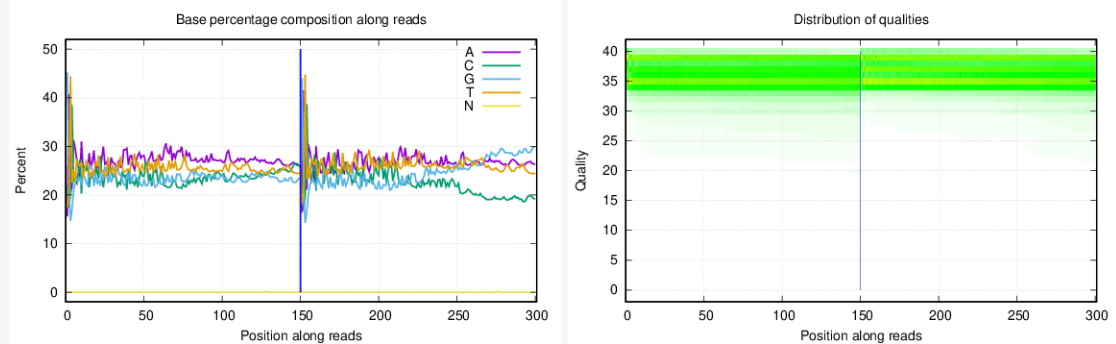
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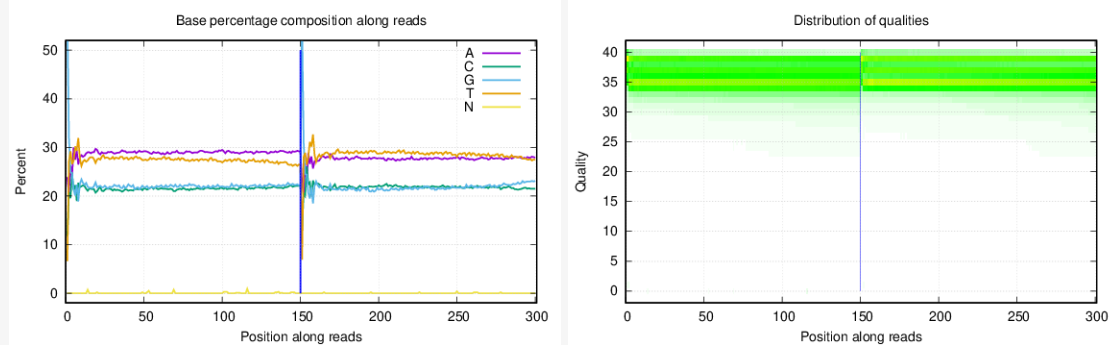
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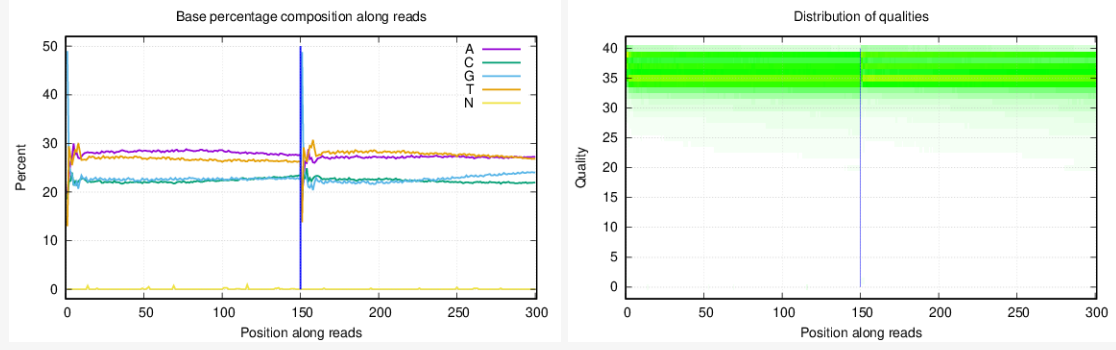
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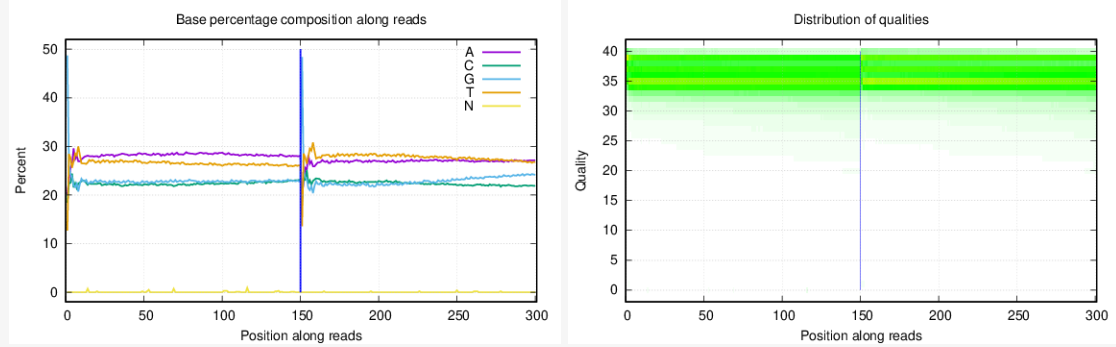
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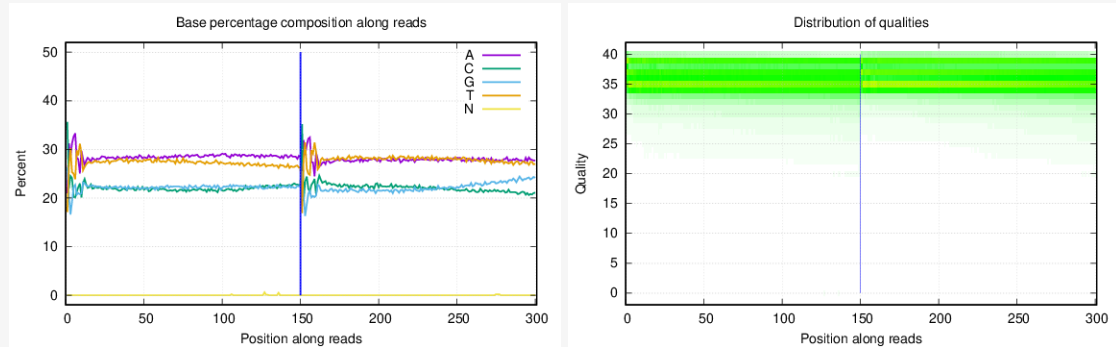
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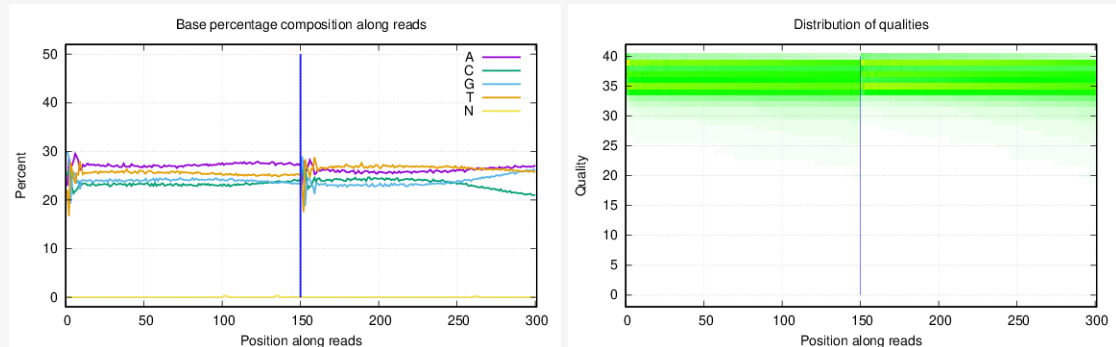
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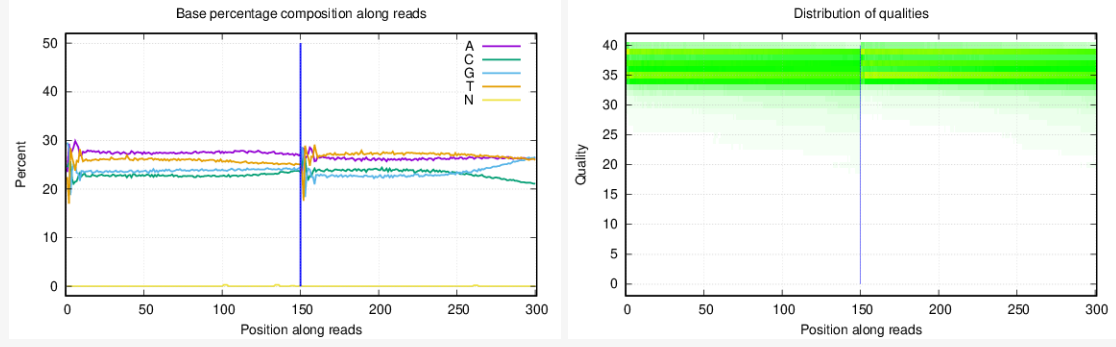
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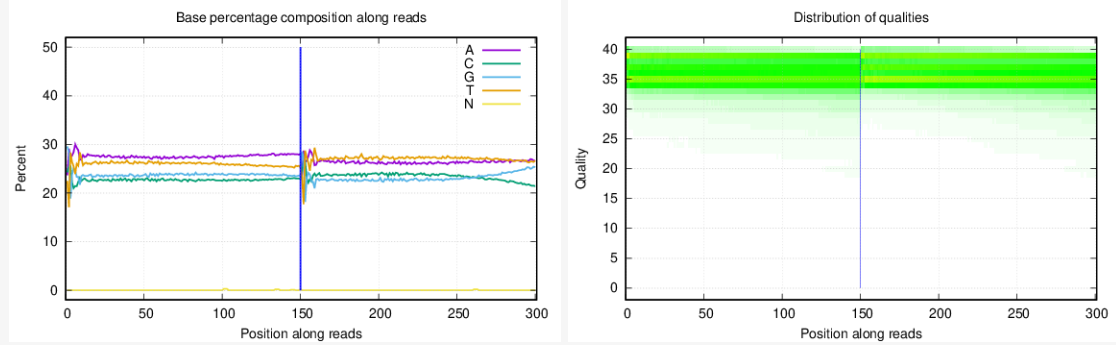
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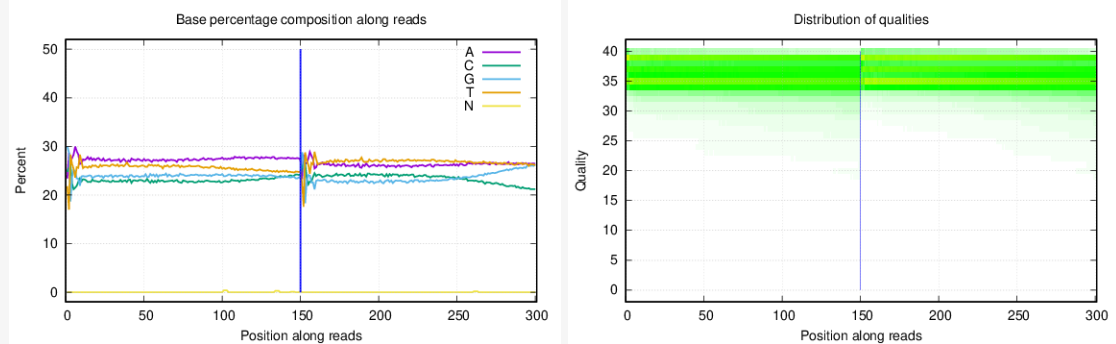
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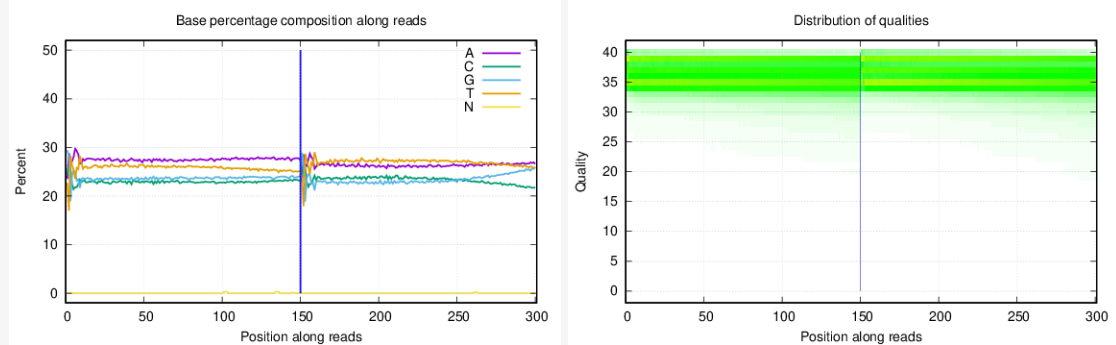
G375



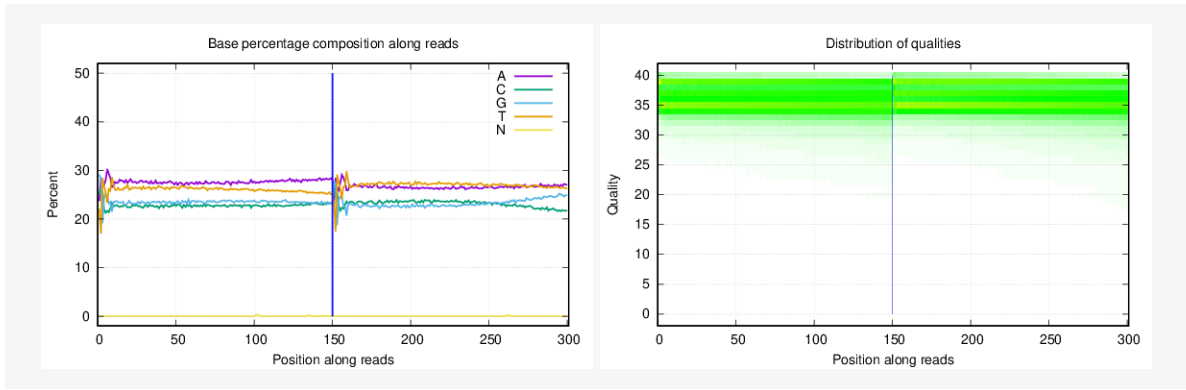
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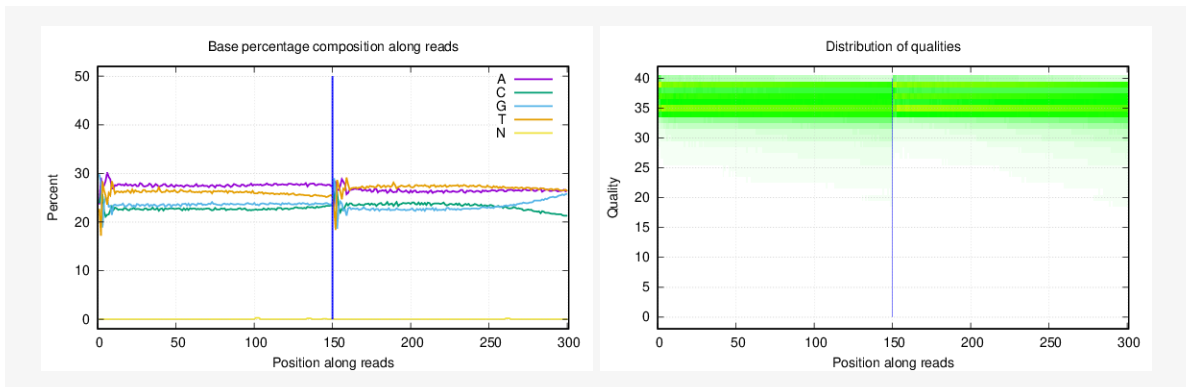
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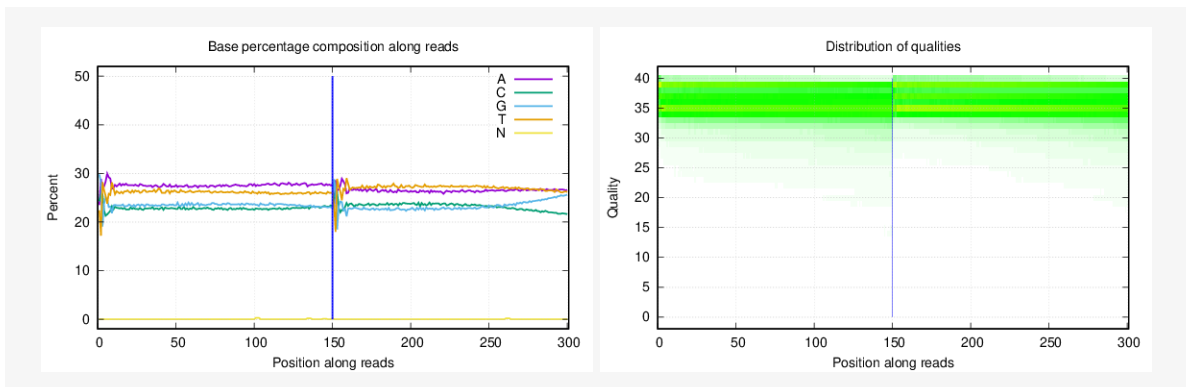
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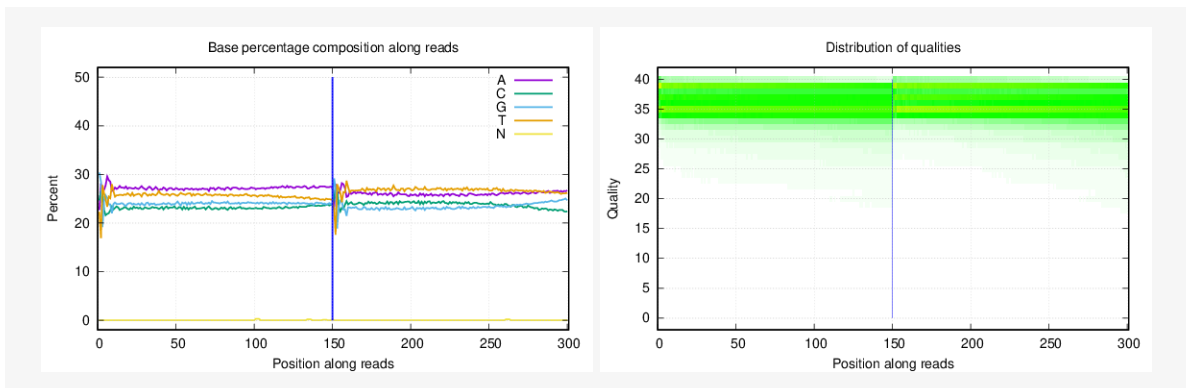
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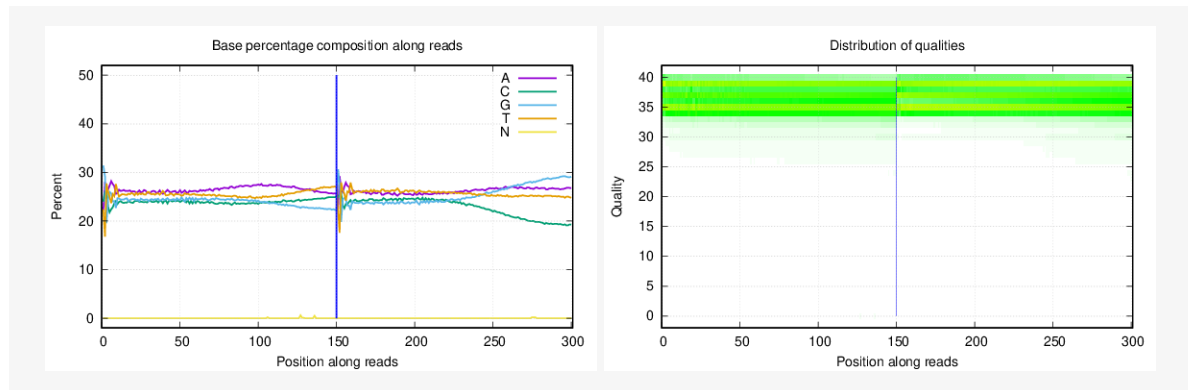
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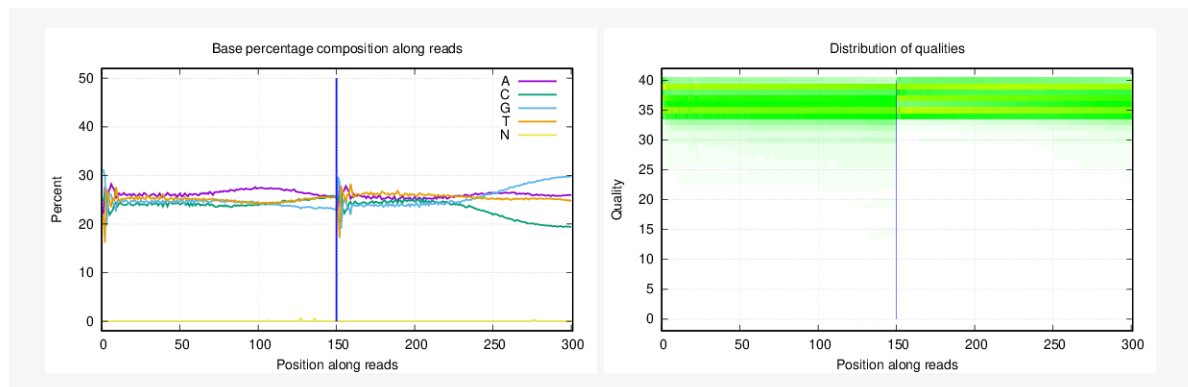
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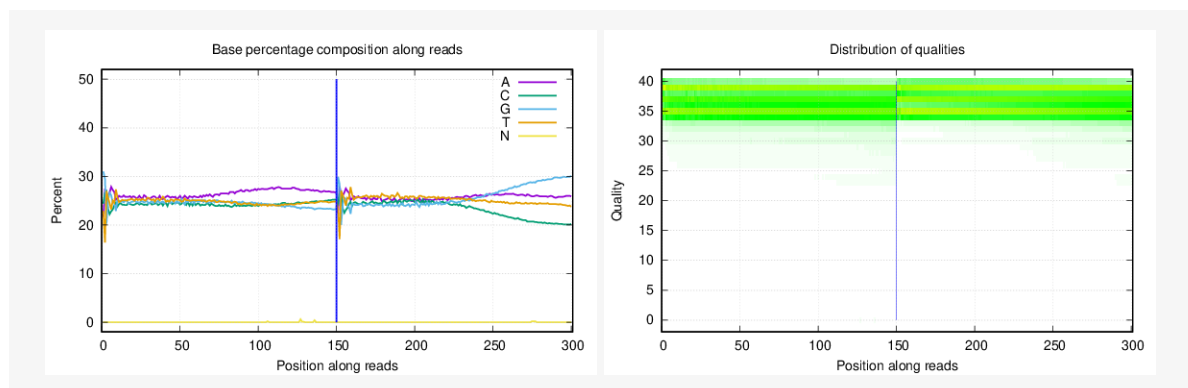
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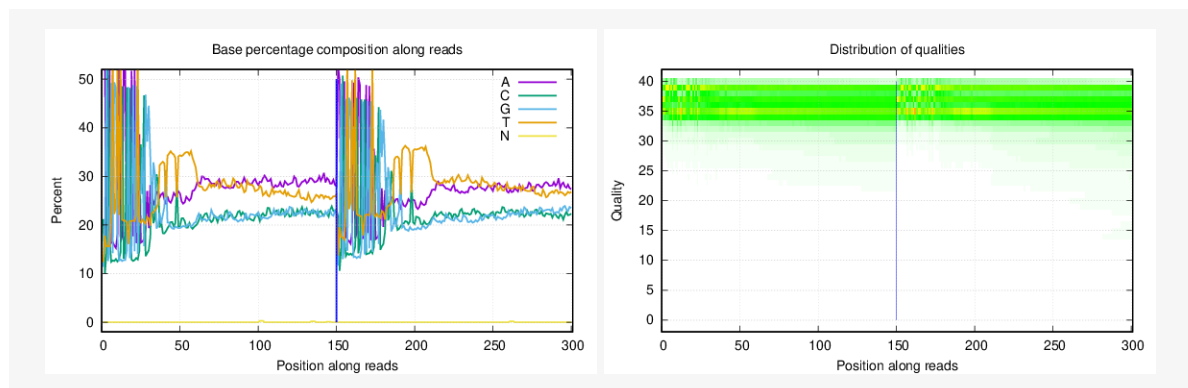
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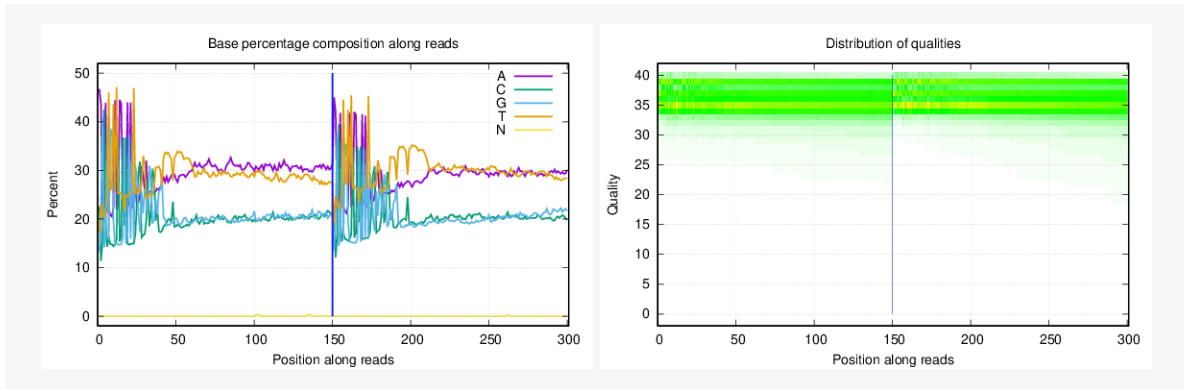
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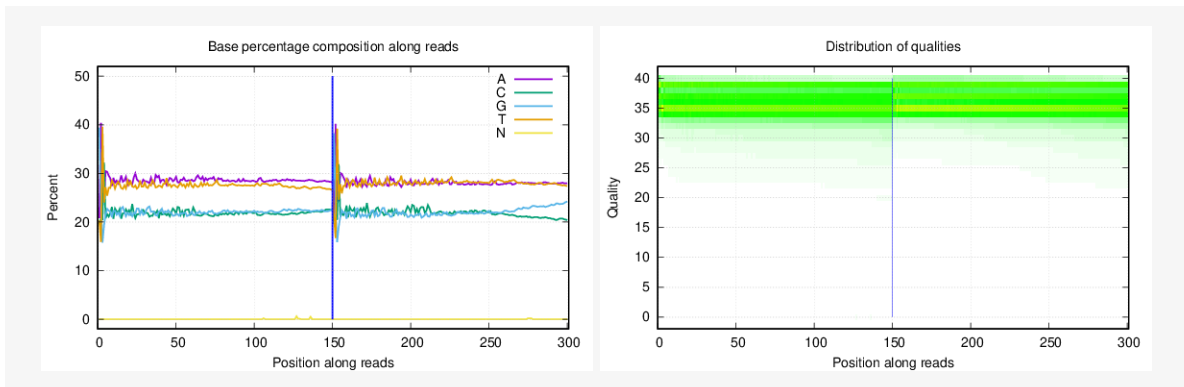
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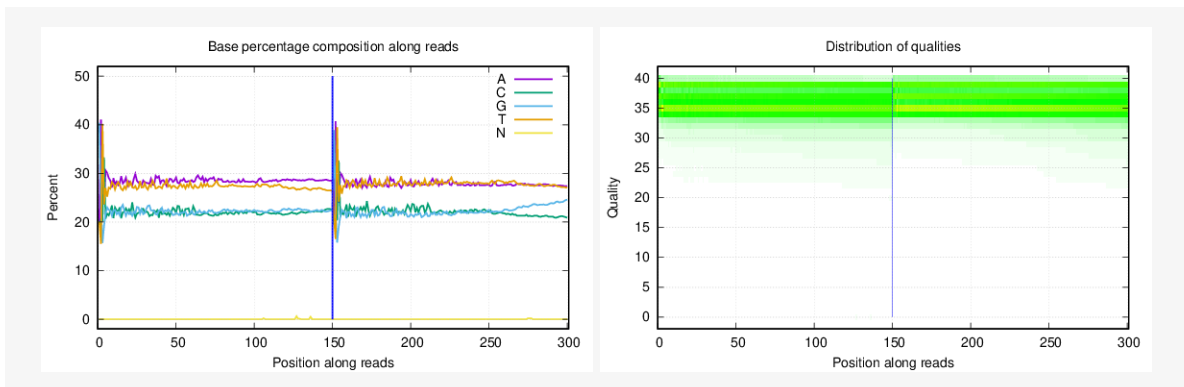
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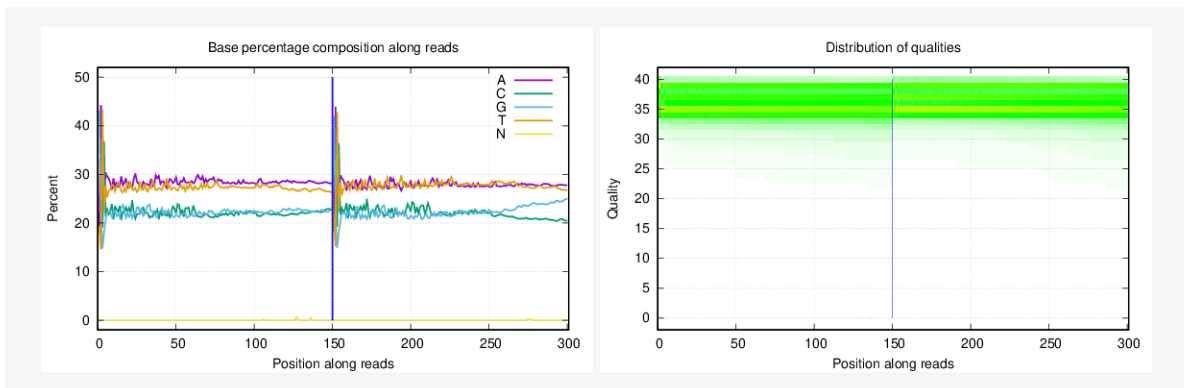
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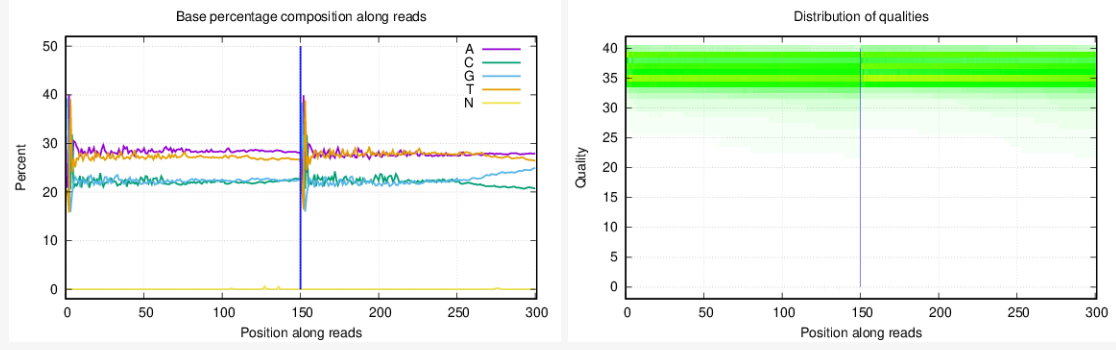
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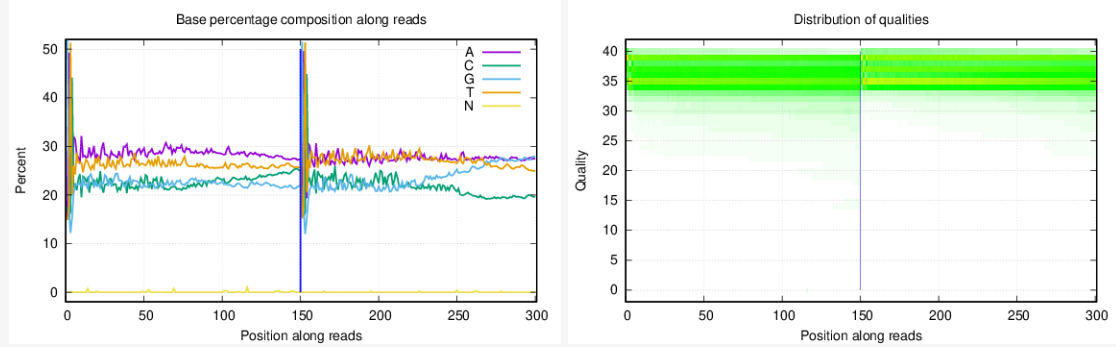
MMC_aux



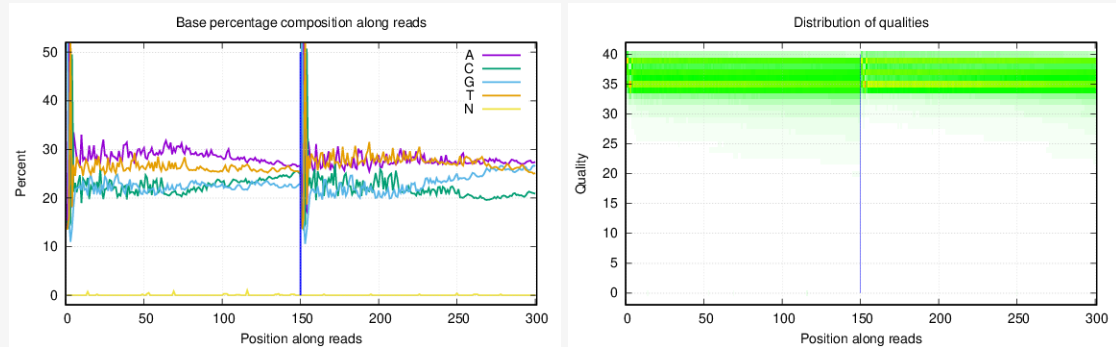
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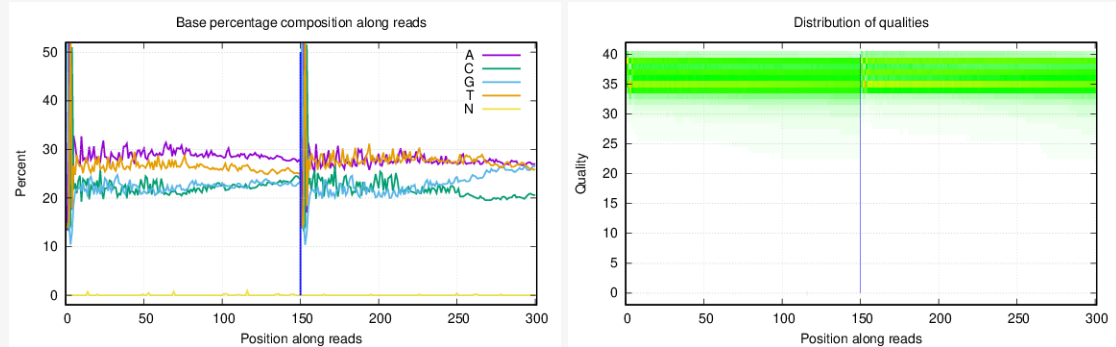
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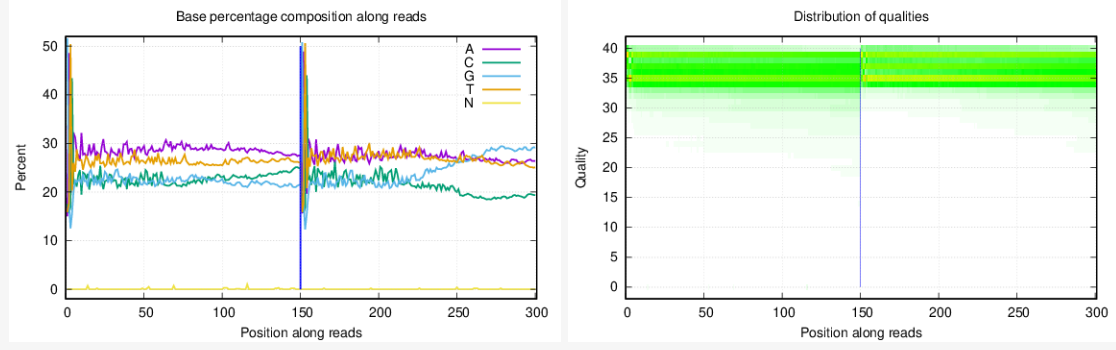
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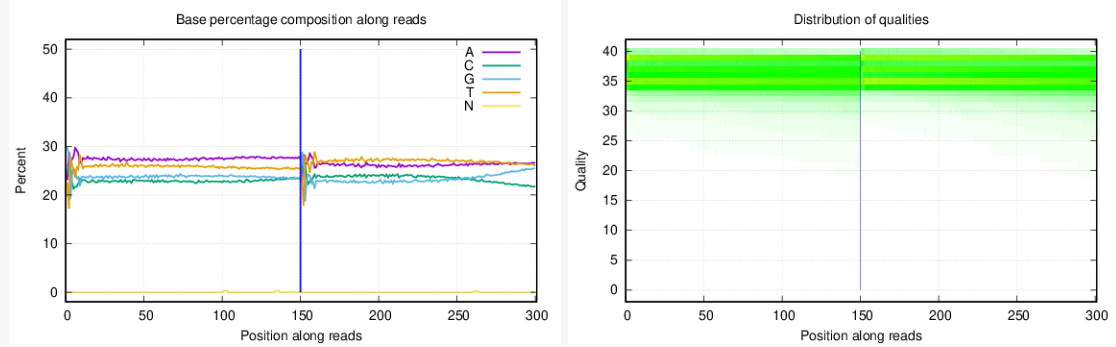
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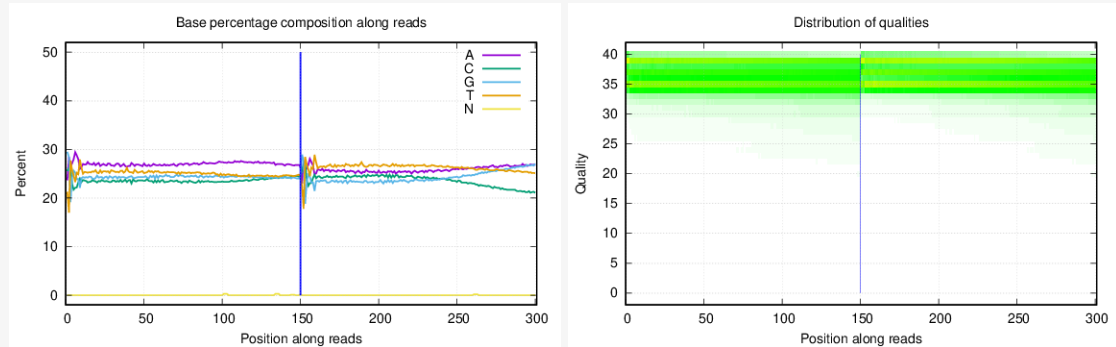
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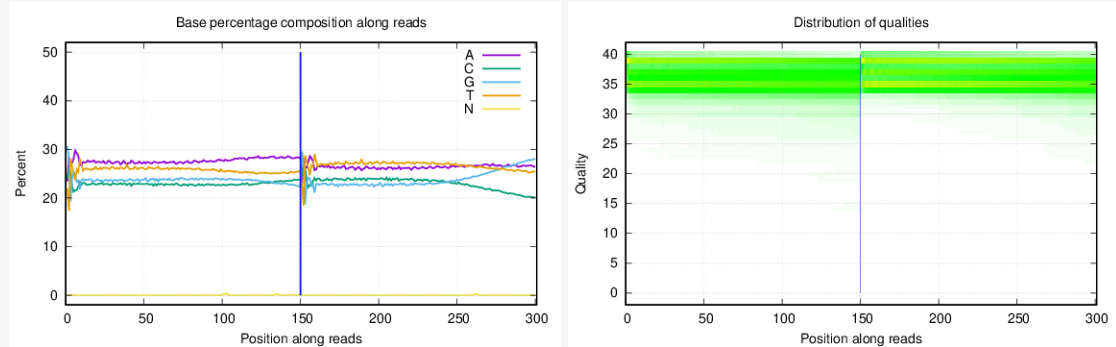
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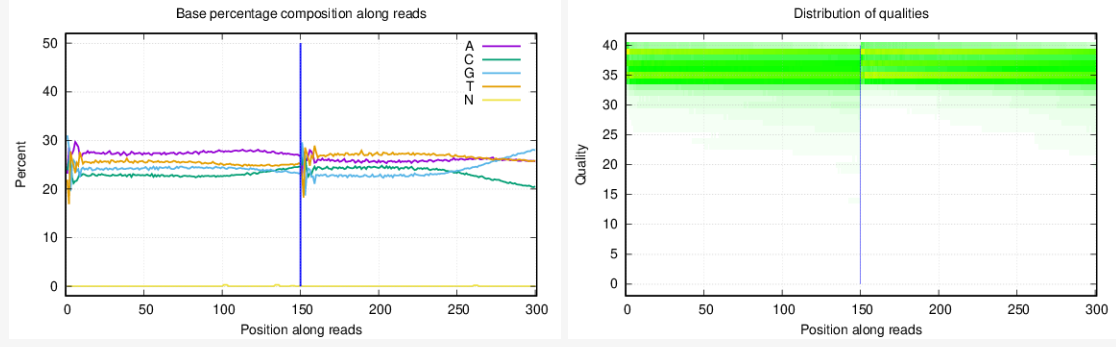
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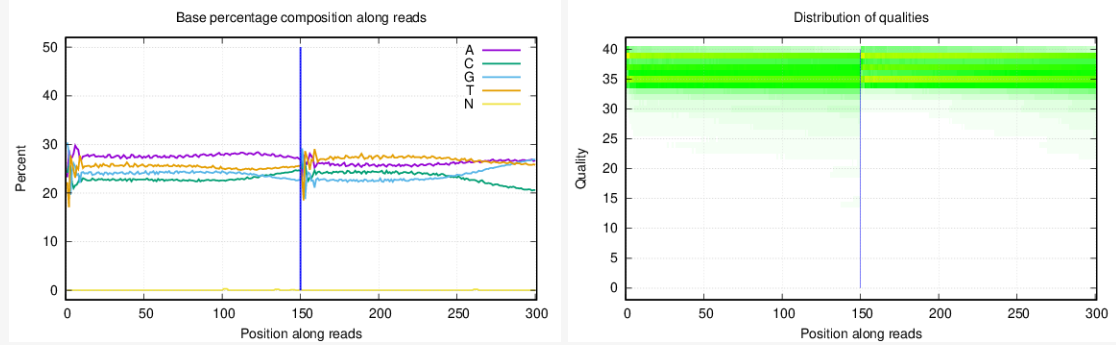
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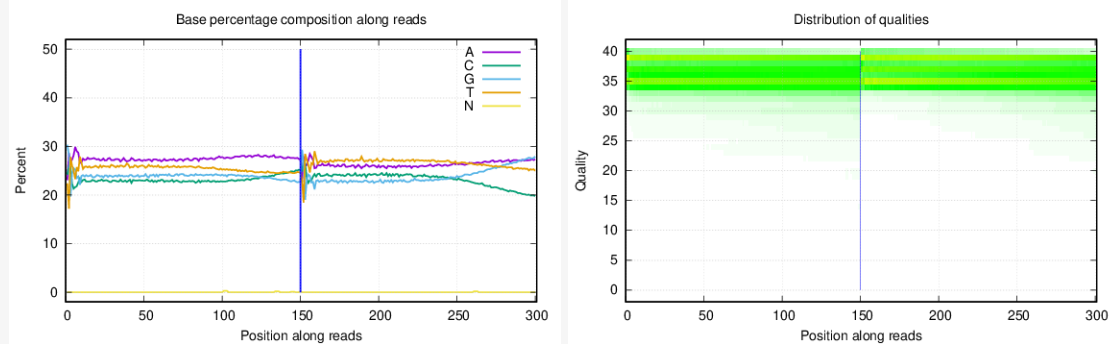
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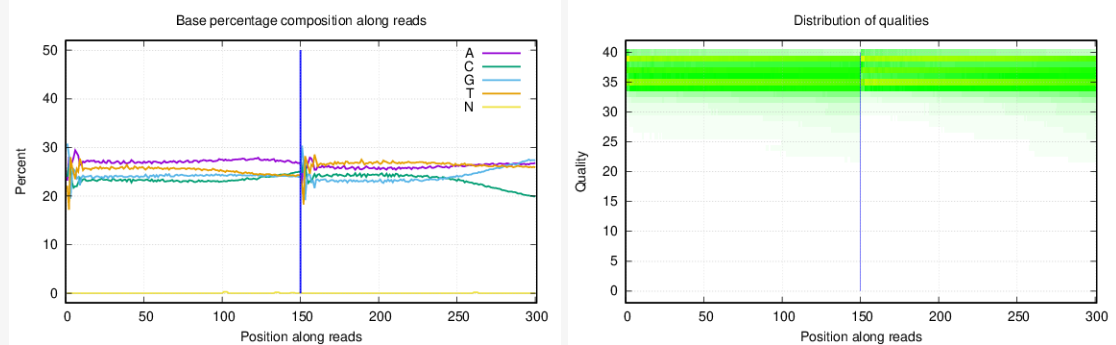
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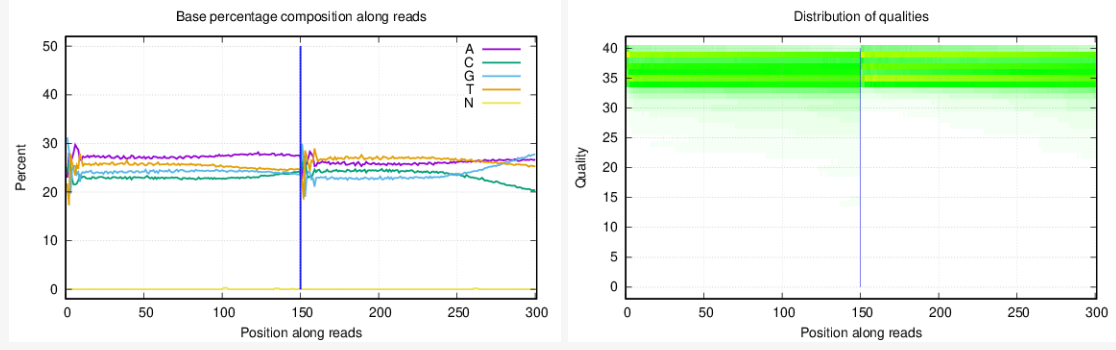
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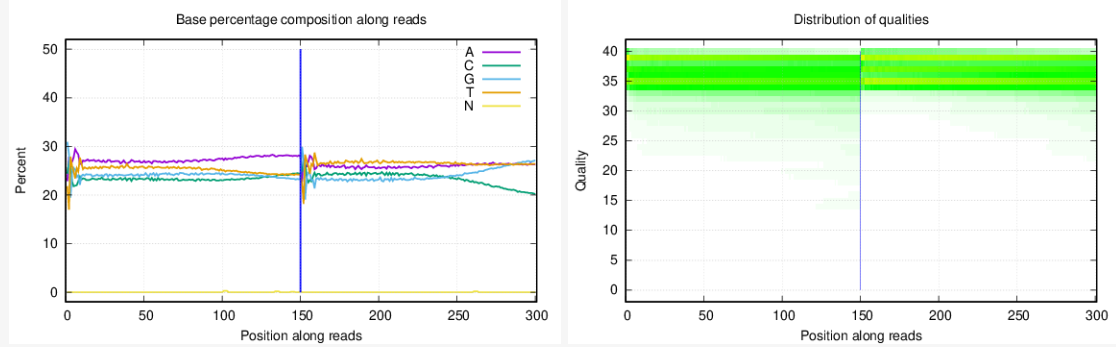
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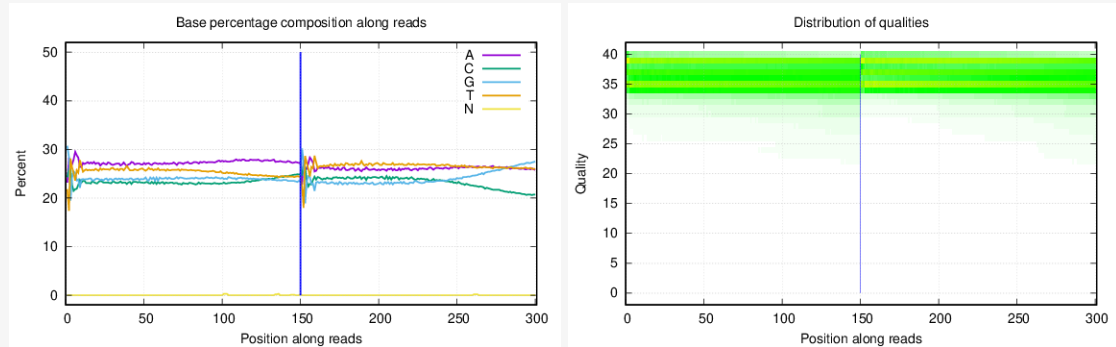
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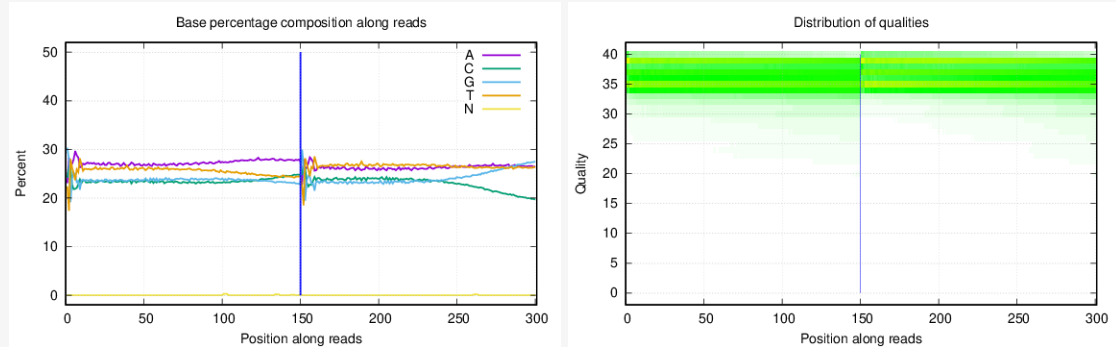
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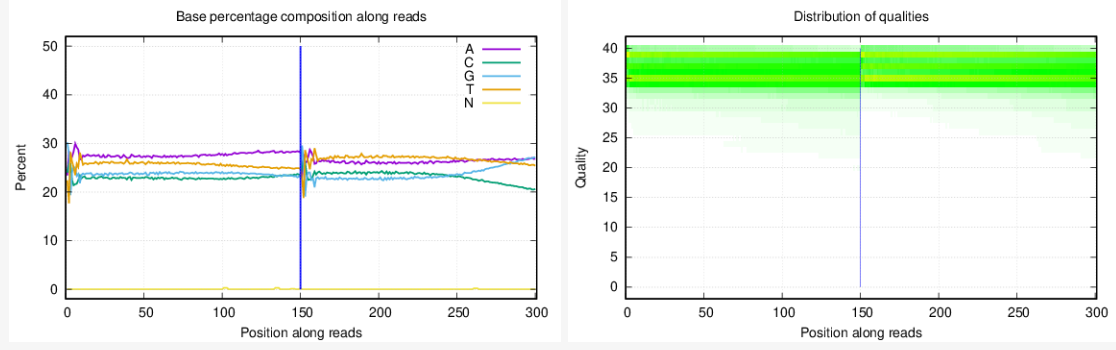
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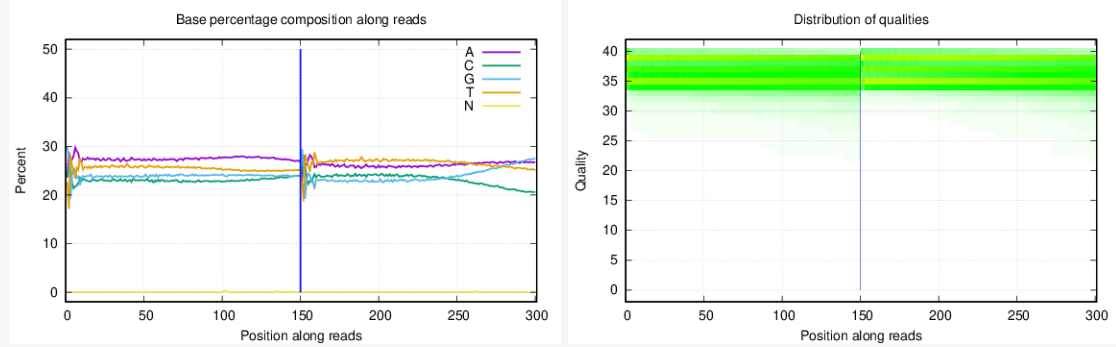
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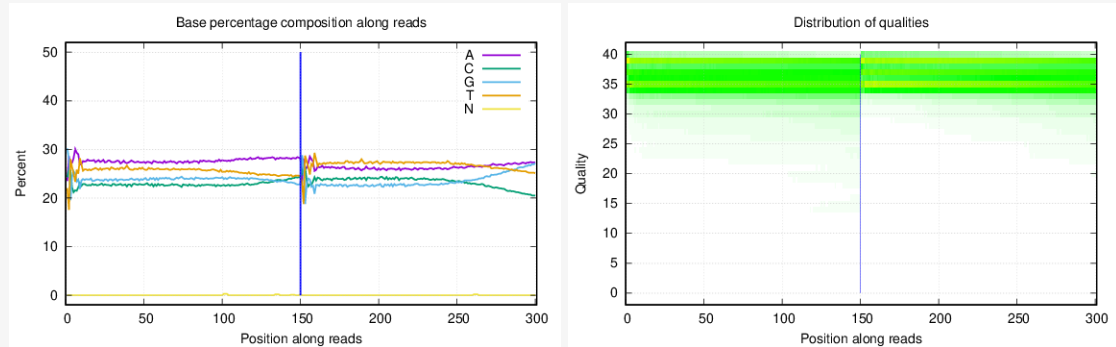
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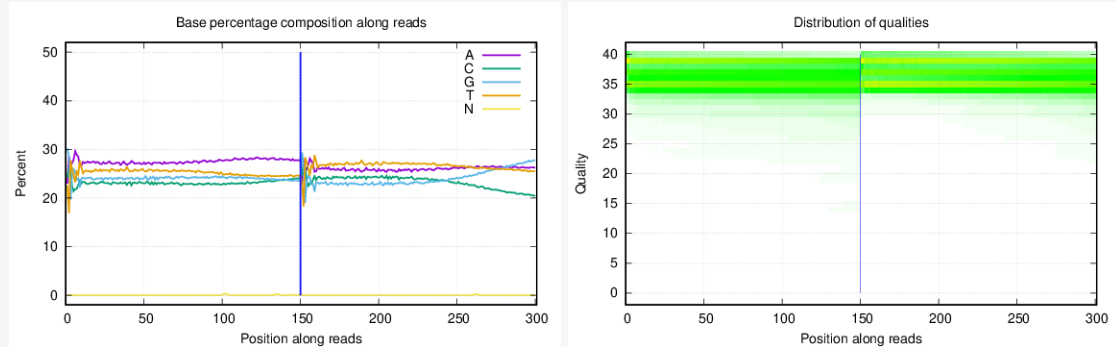
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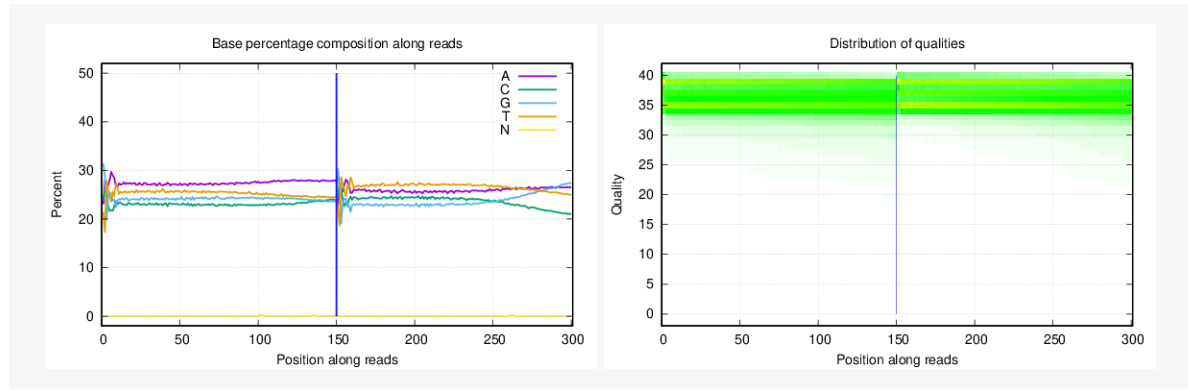
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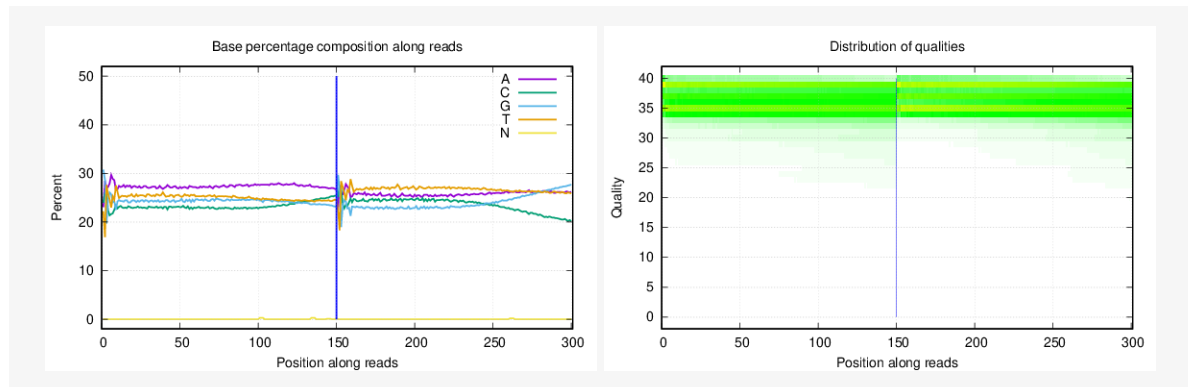
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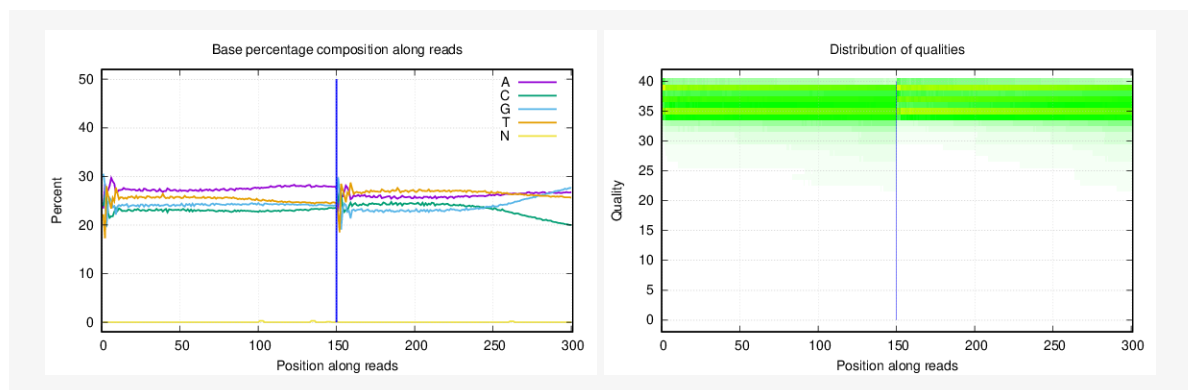
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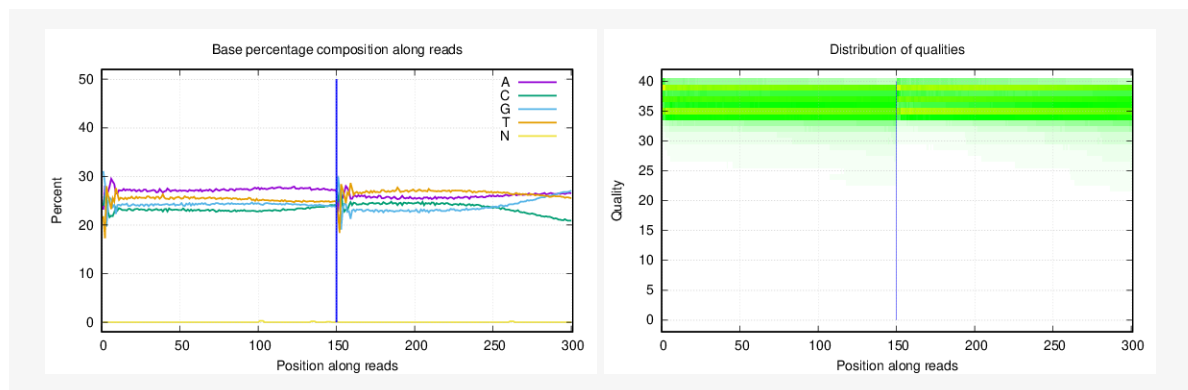
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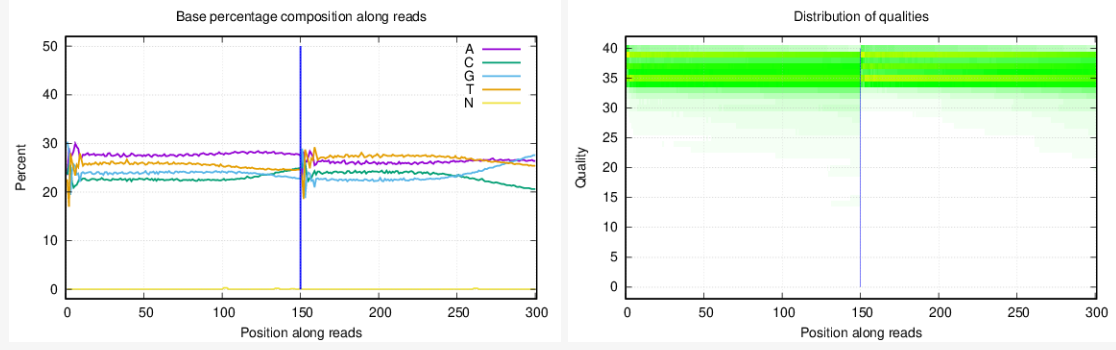
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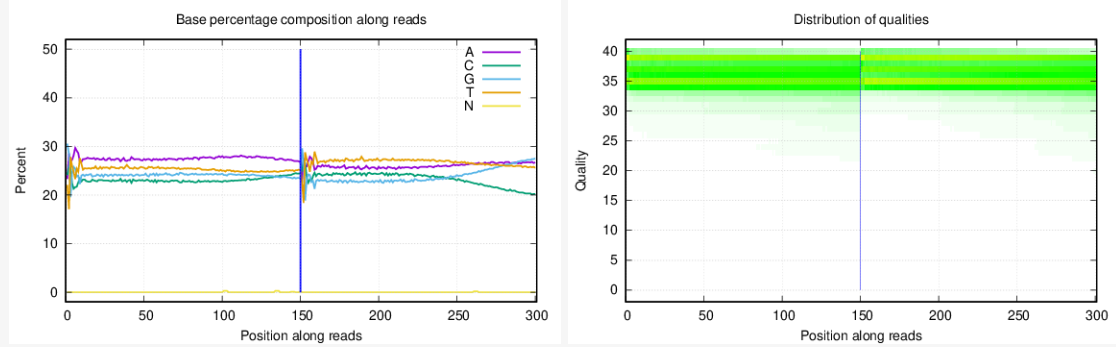
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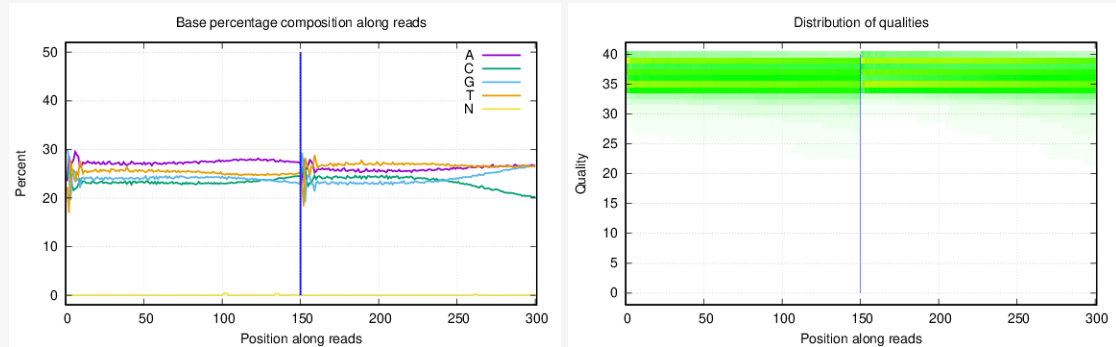
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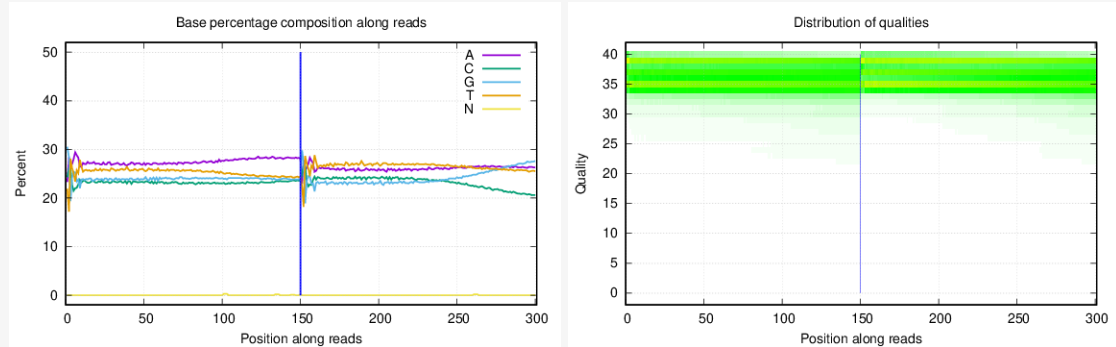
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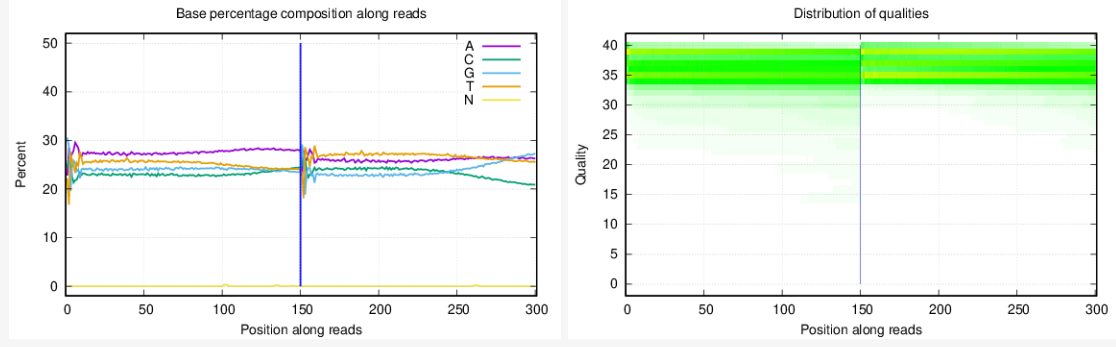
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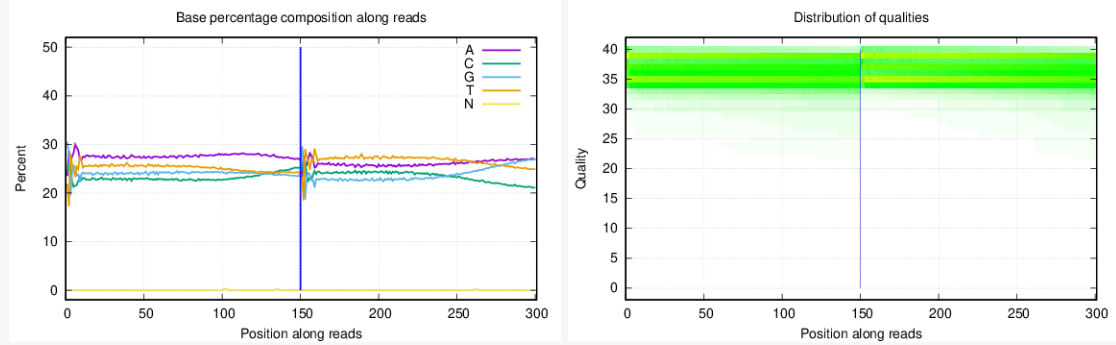
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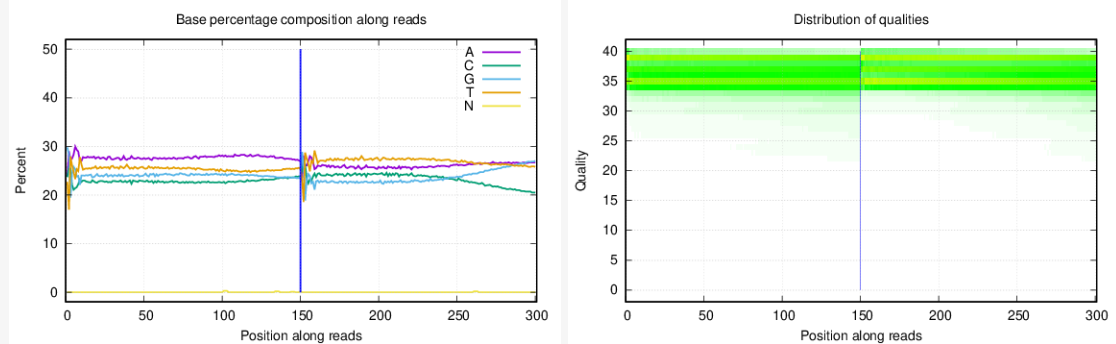
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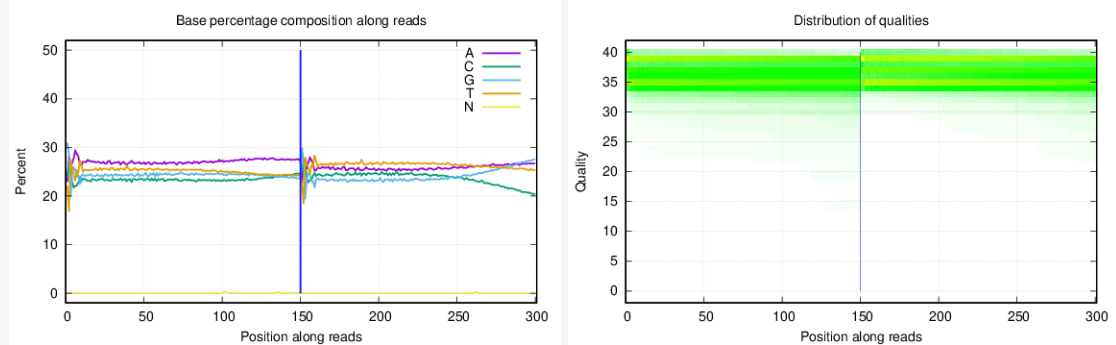
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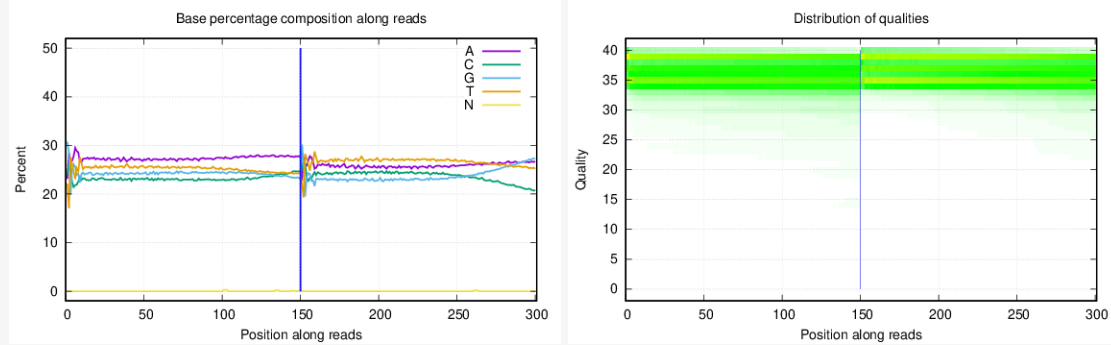
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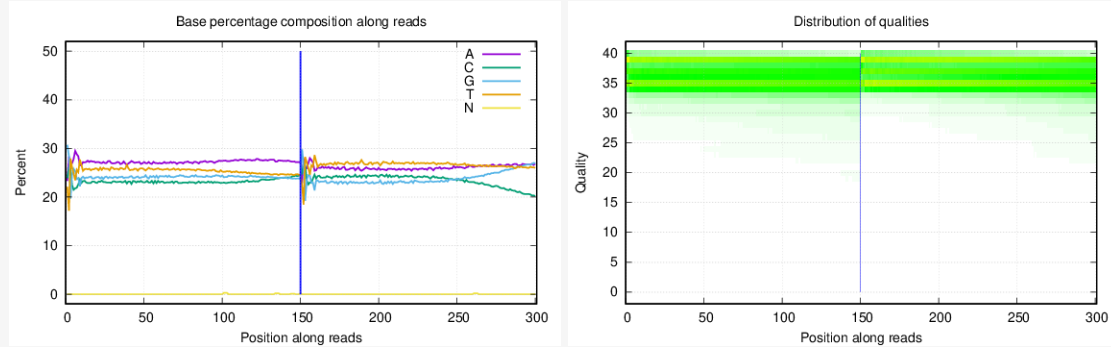
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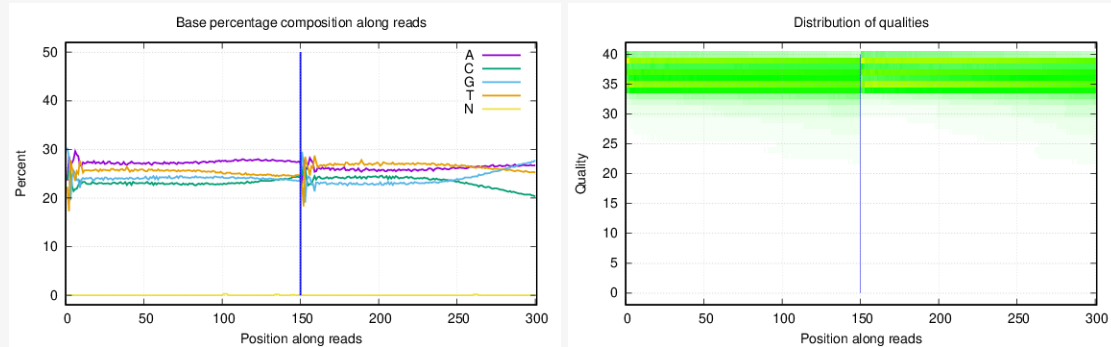
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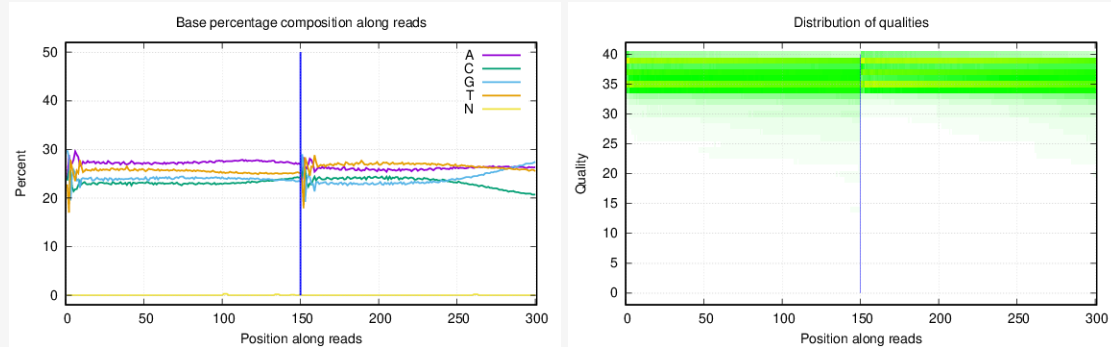
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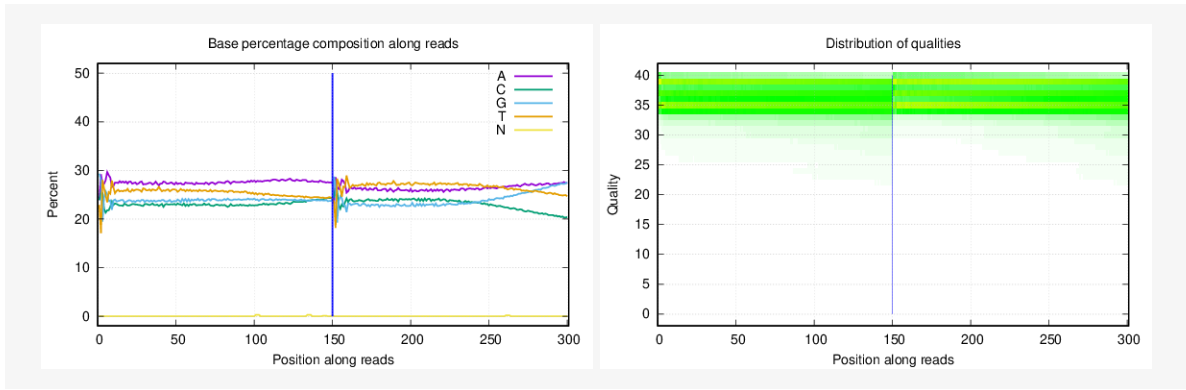
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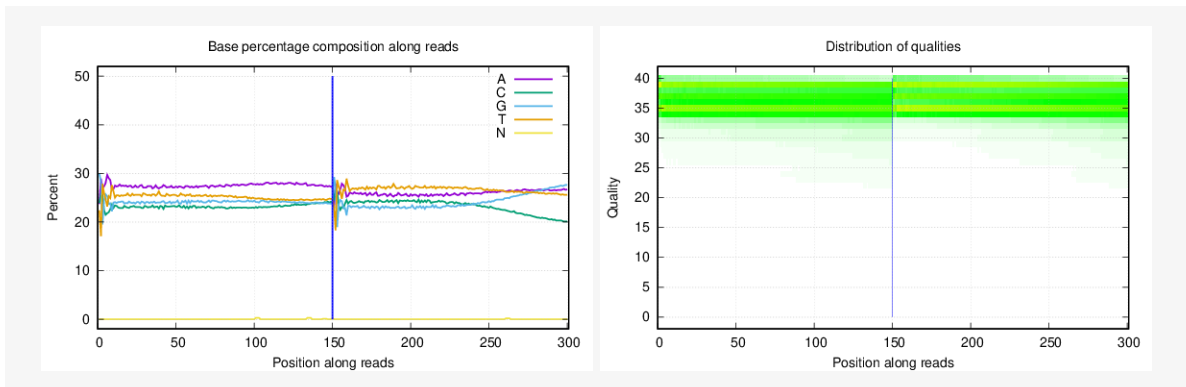
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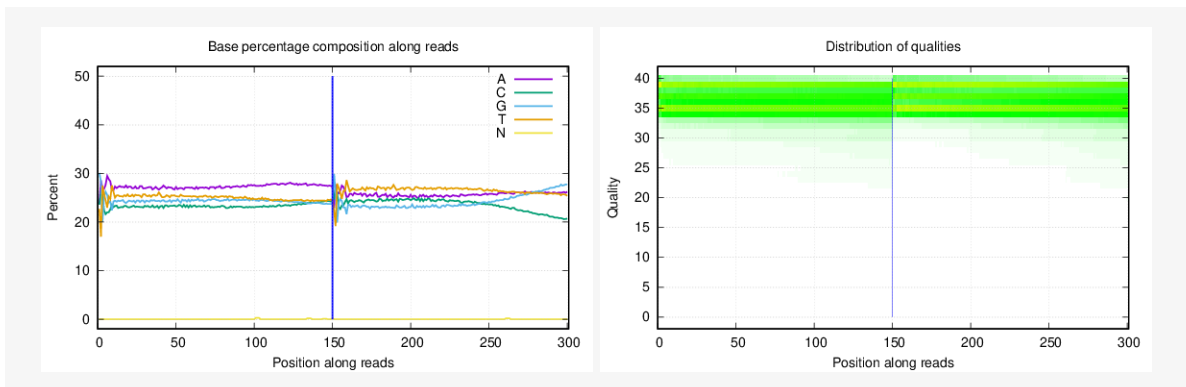
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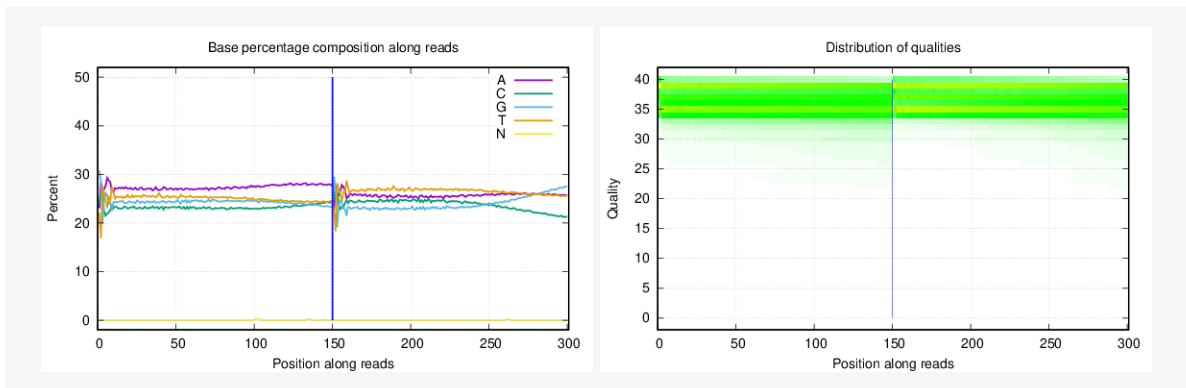
RS37



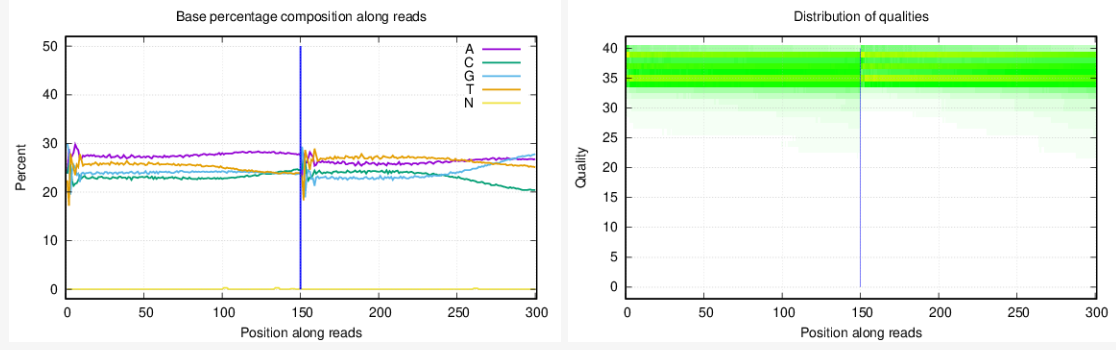
RS38



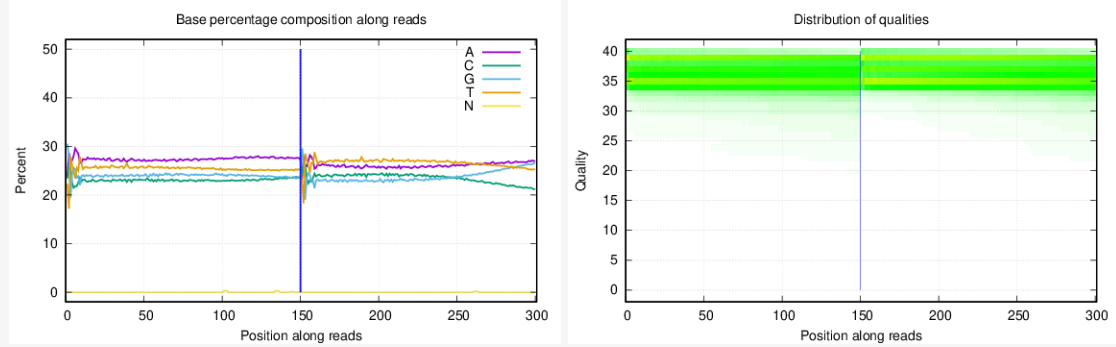
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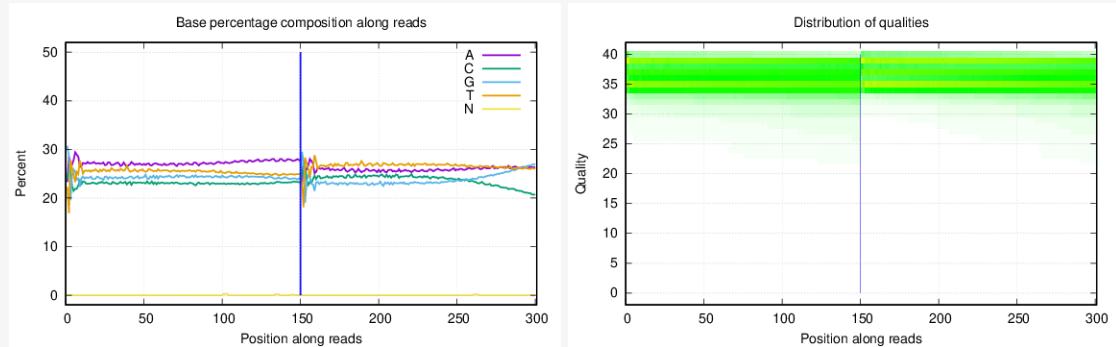
RS4



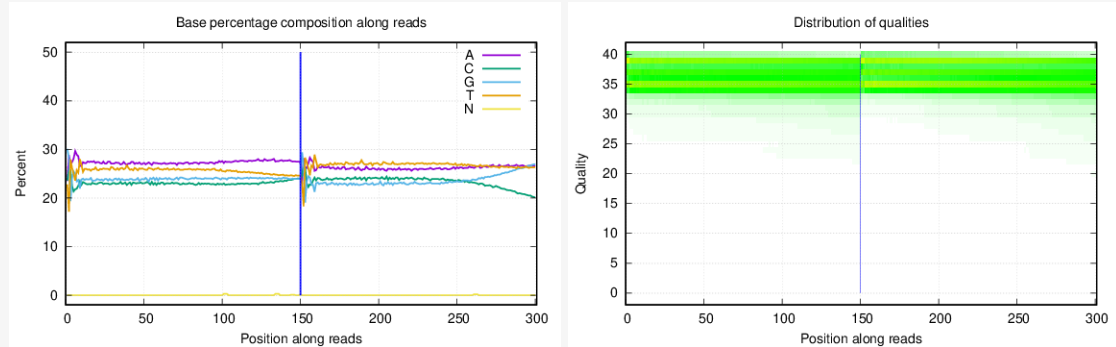
RS40



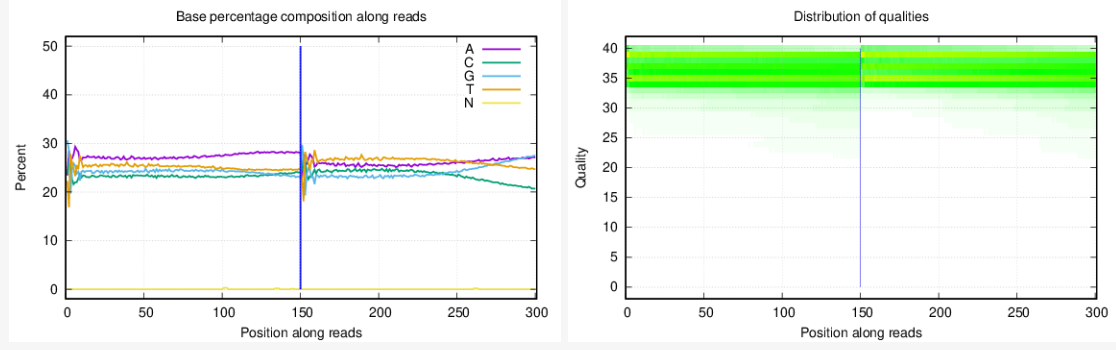
RS41



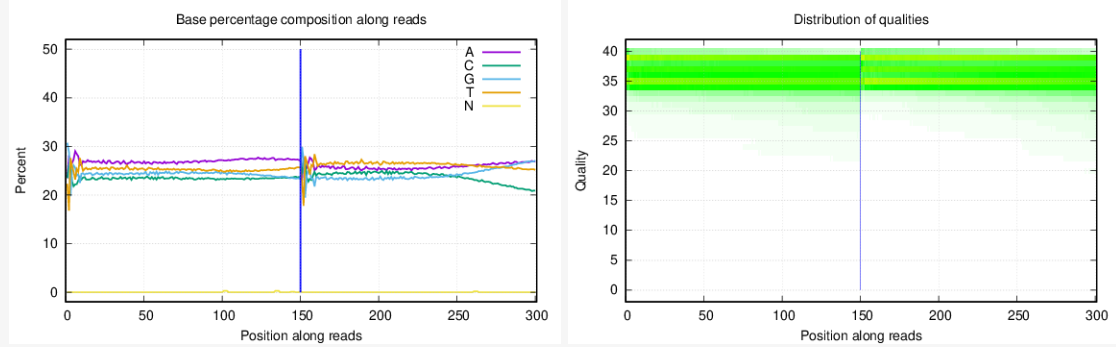
RS42



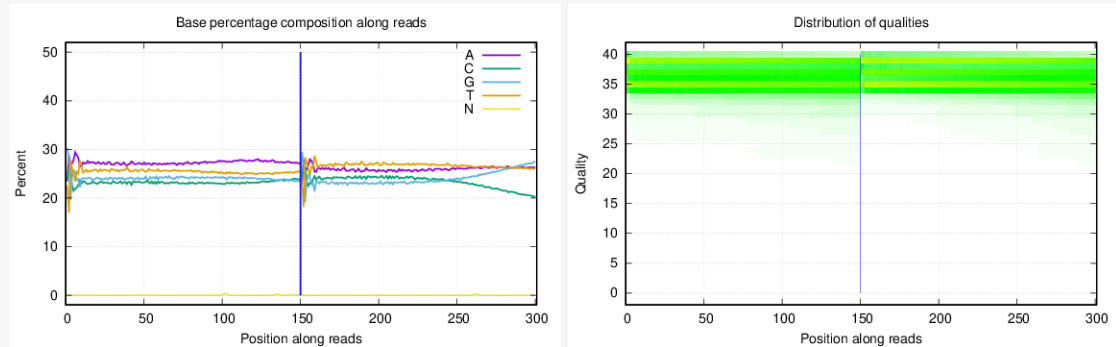
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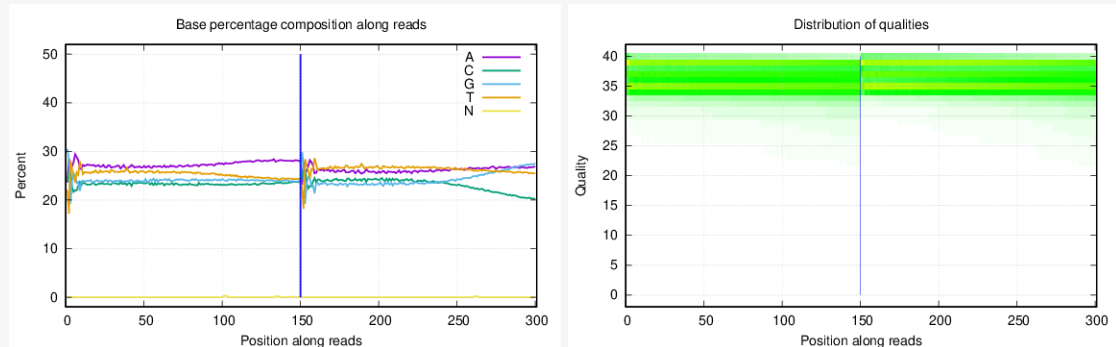
RS44



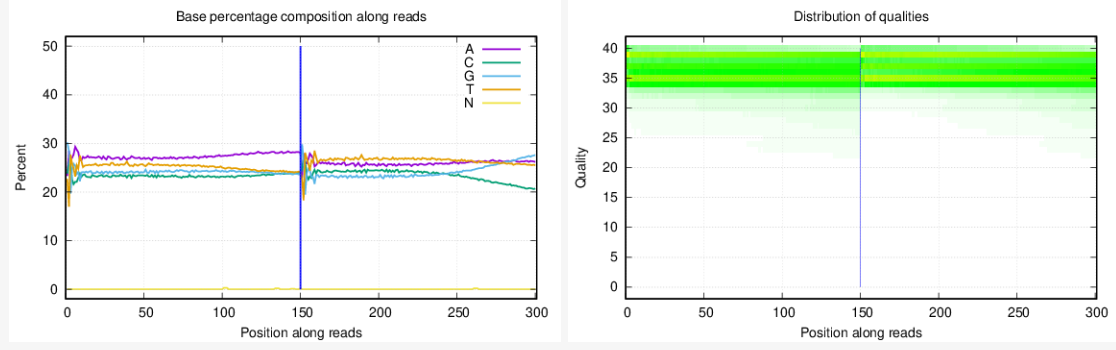
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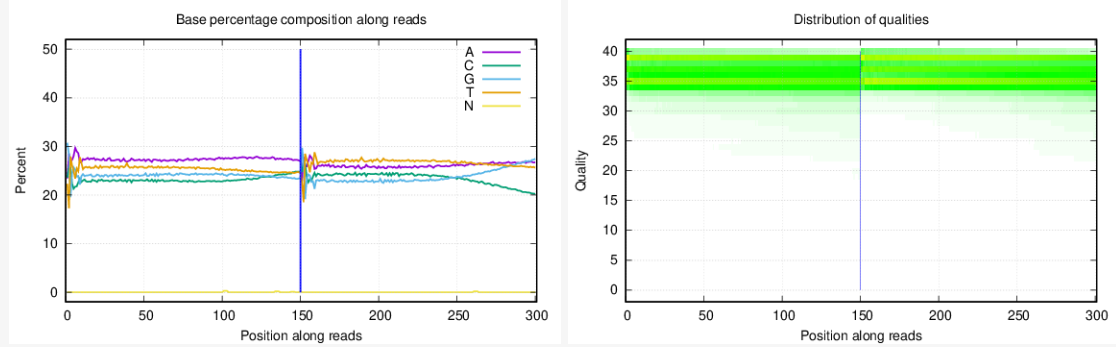
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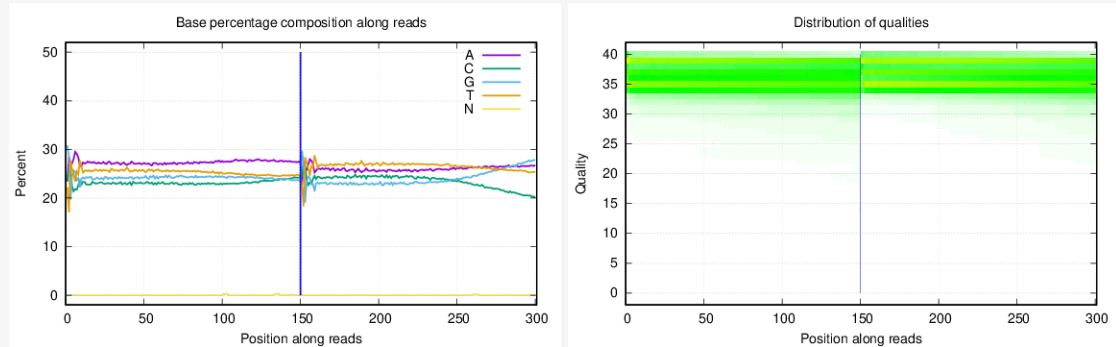
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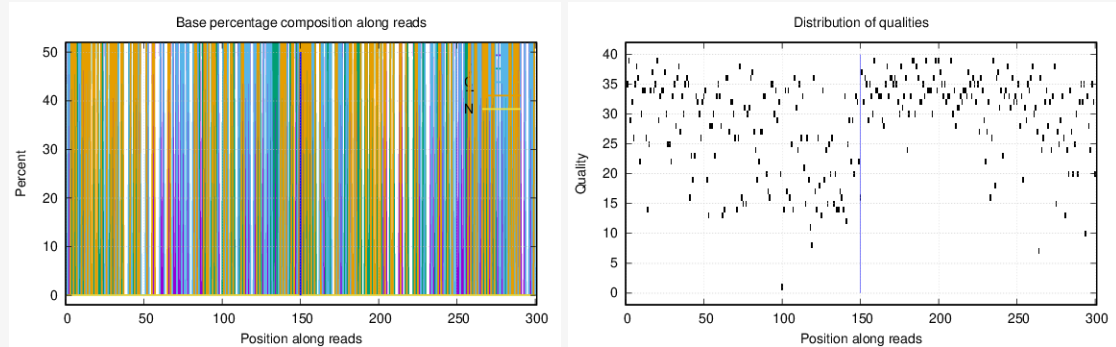
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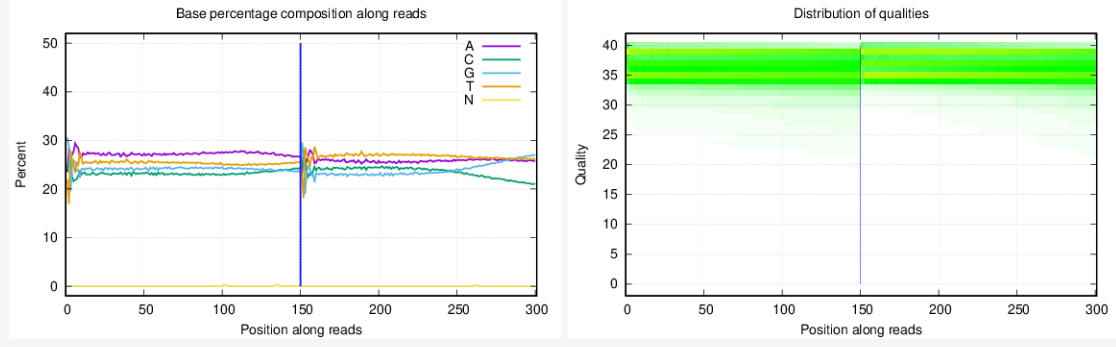
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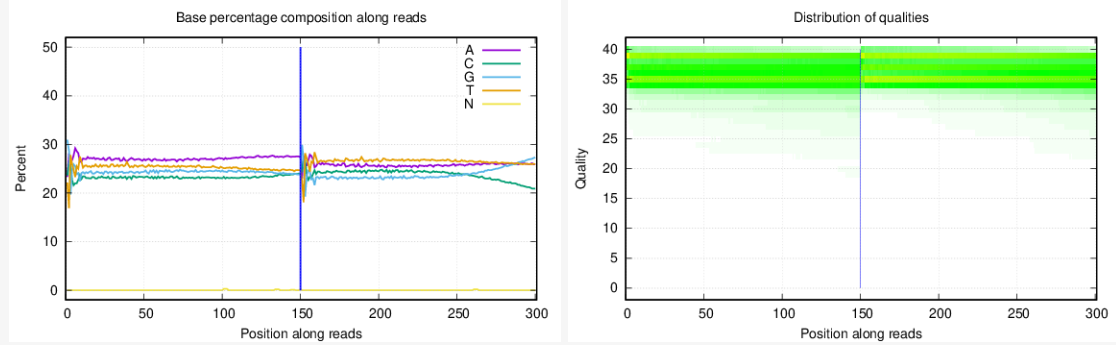
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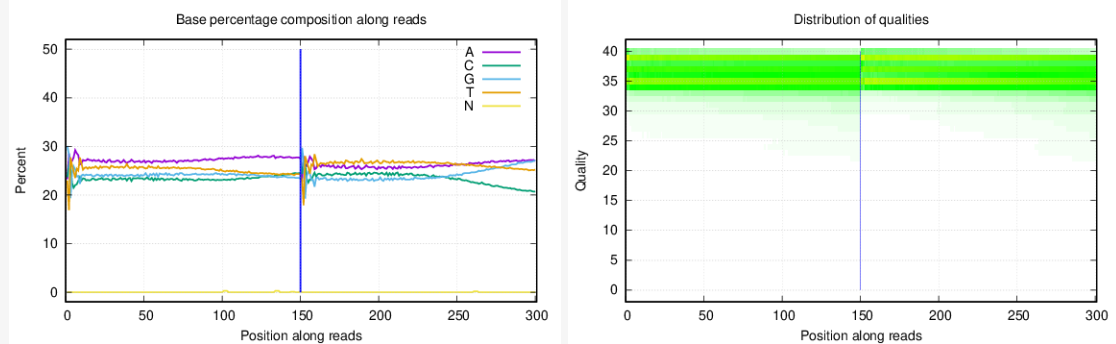
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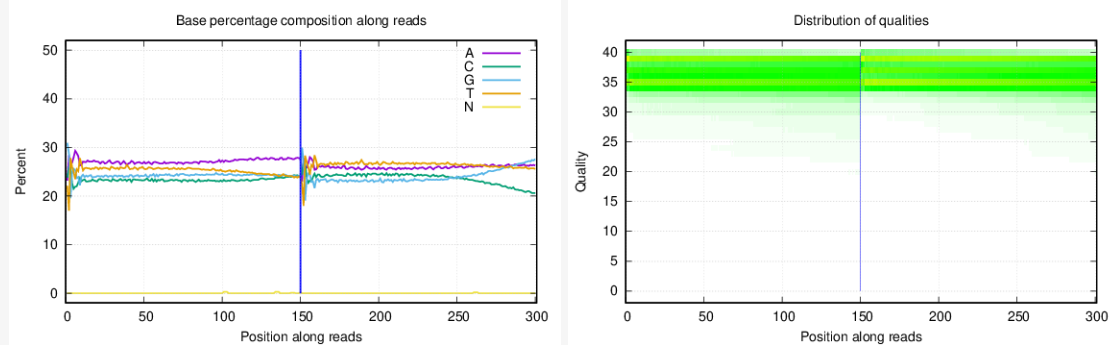
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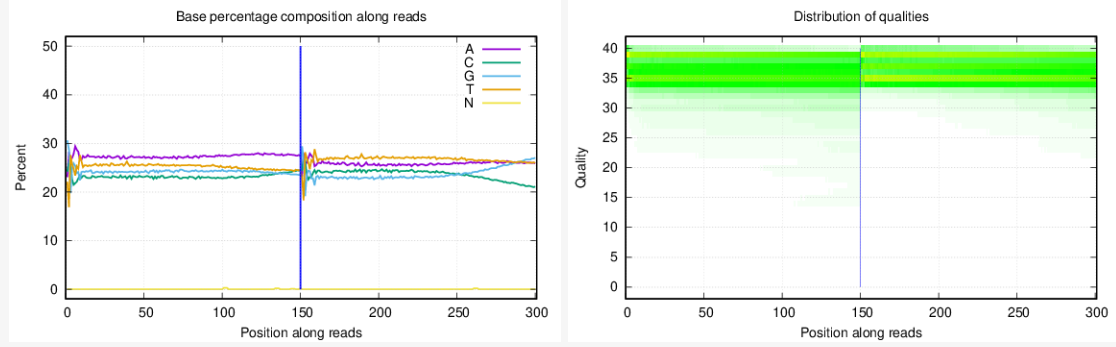
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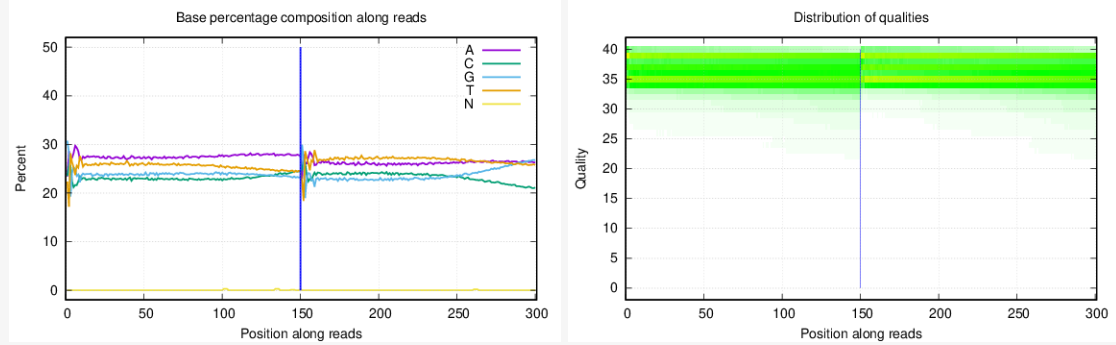
RS53



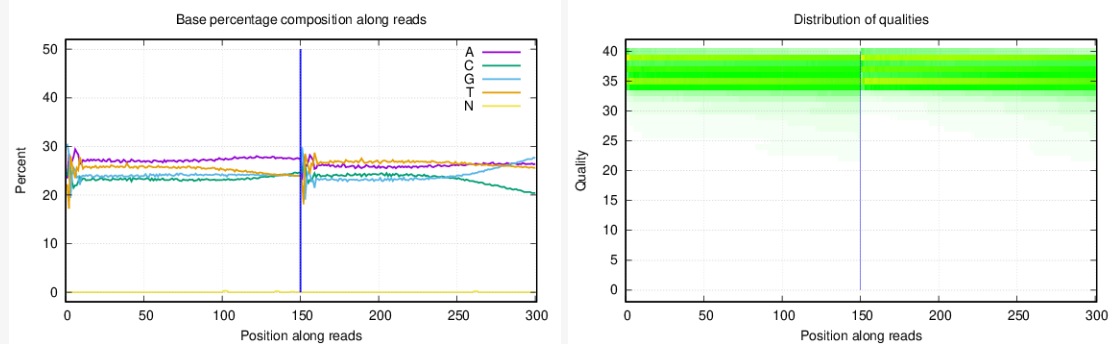
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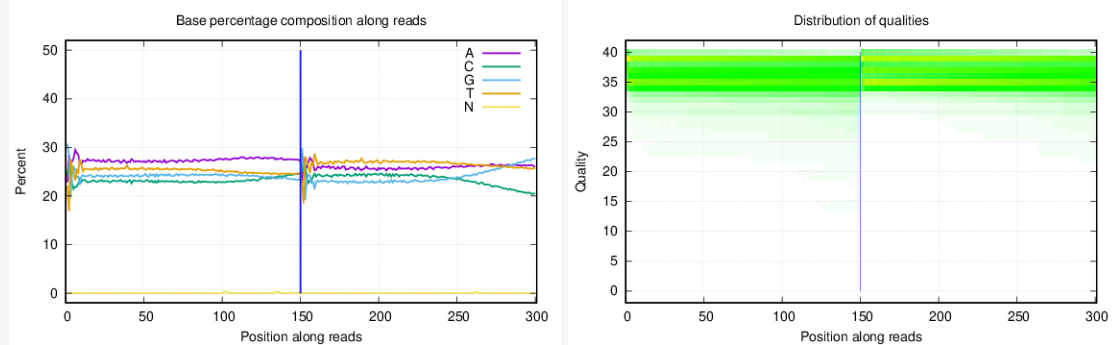
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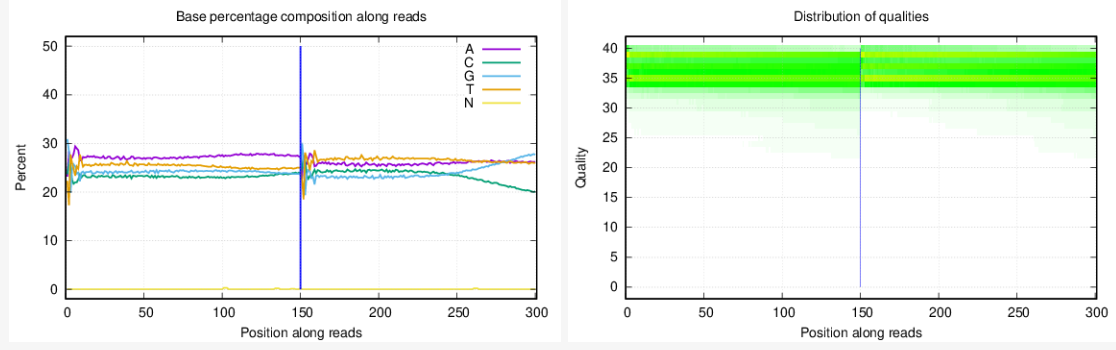
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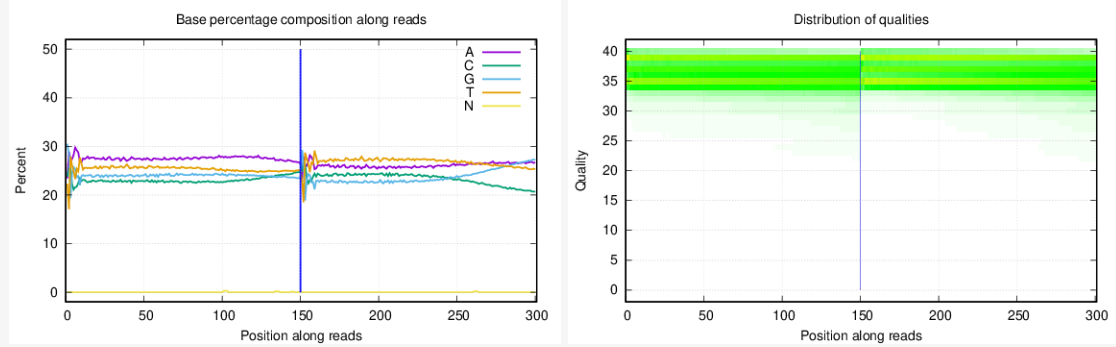
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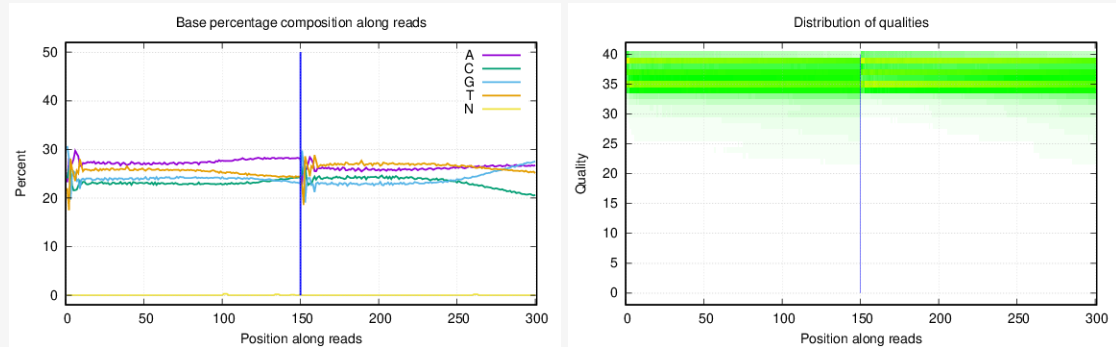
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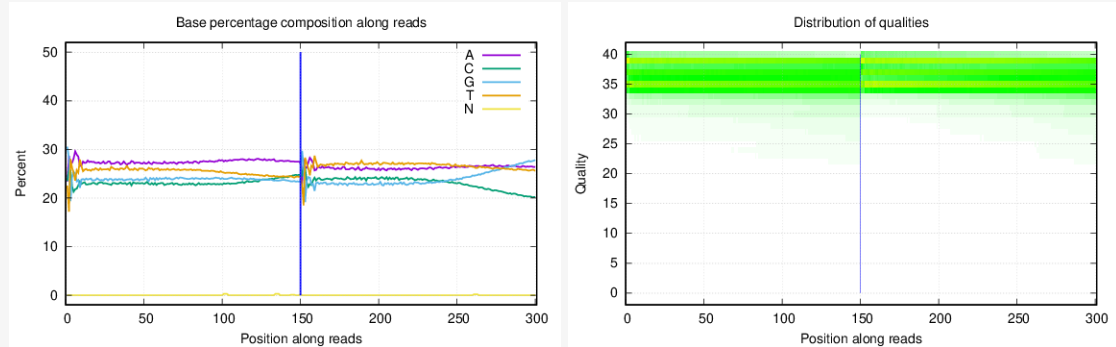
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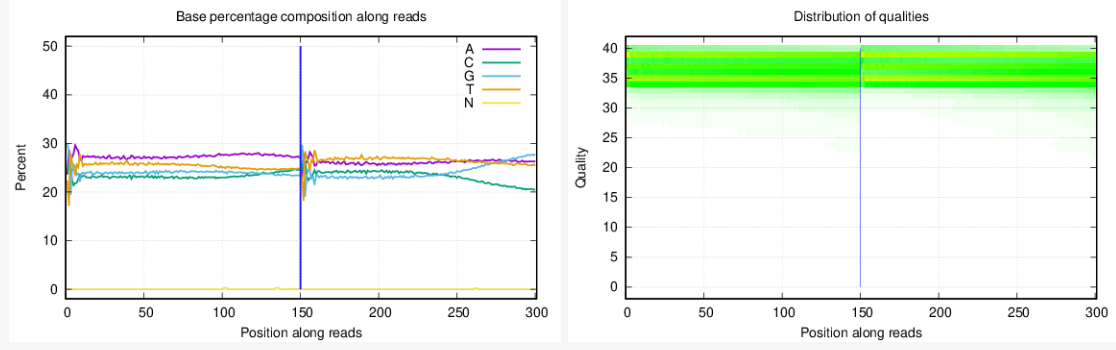
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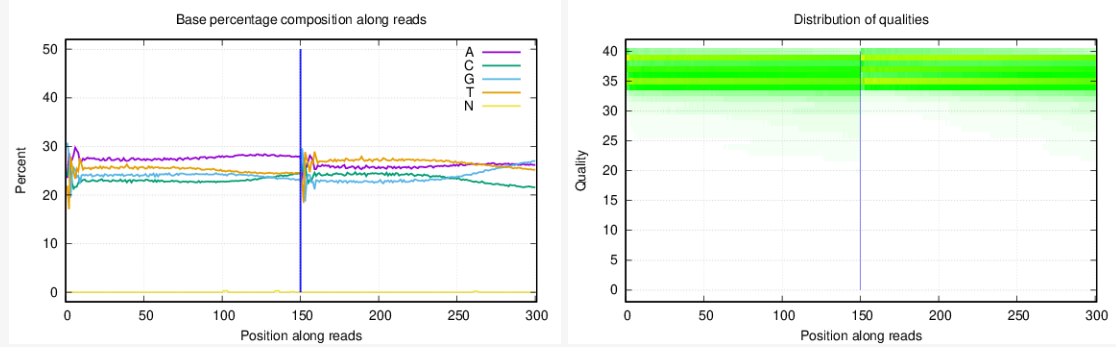
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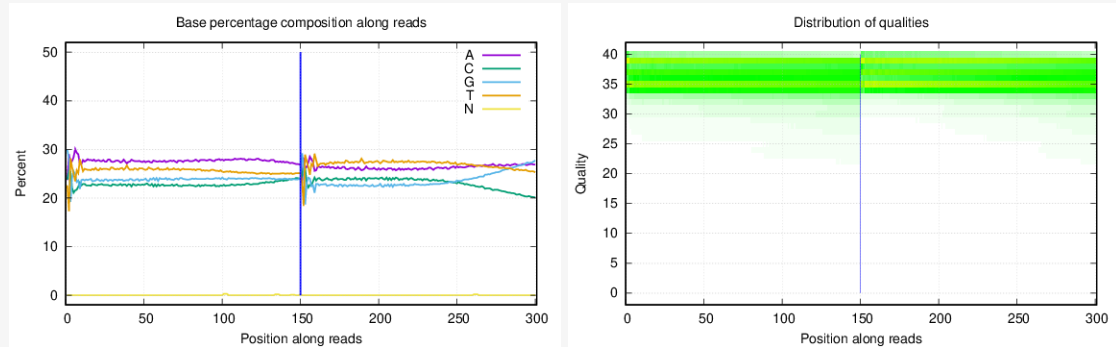
RS7



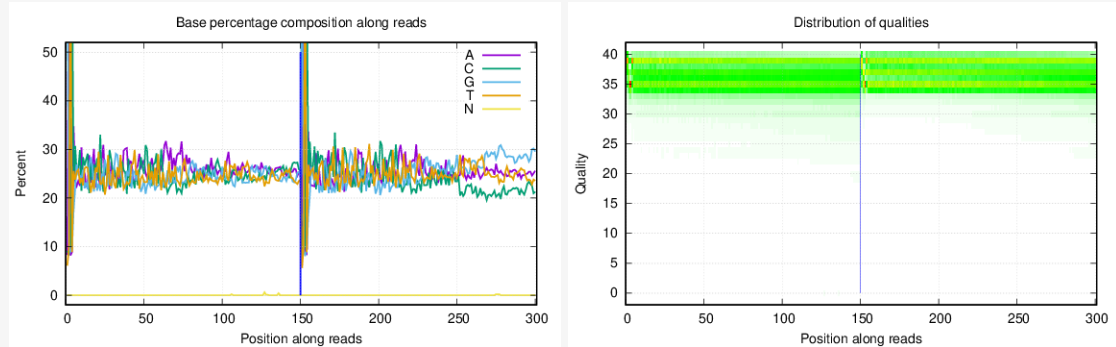
RS8



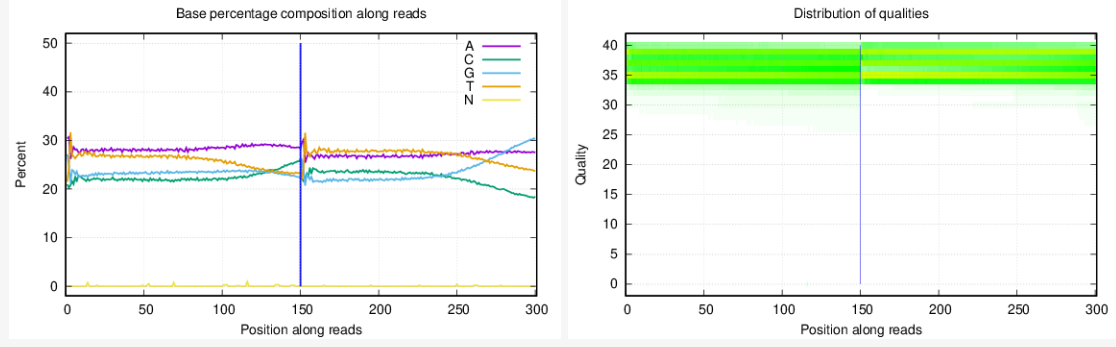
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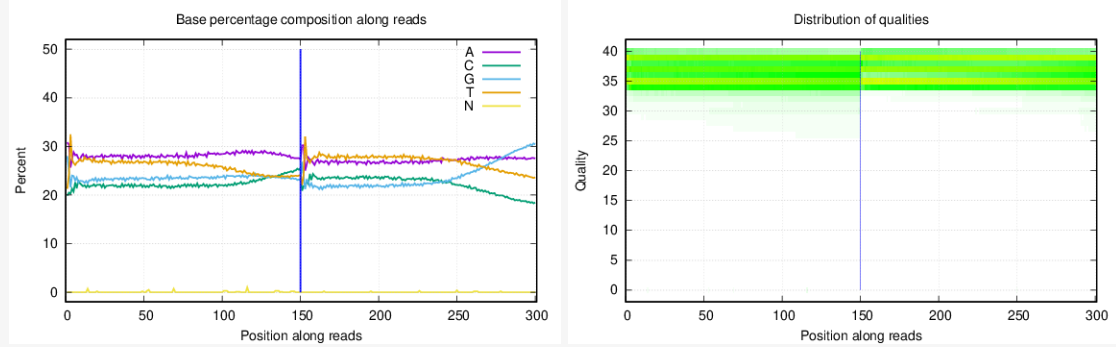
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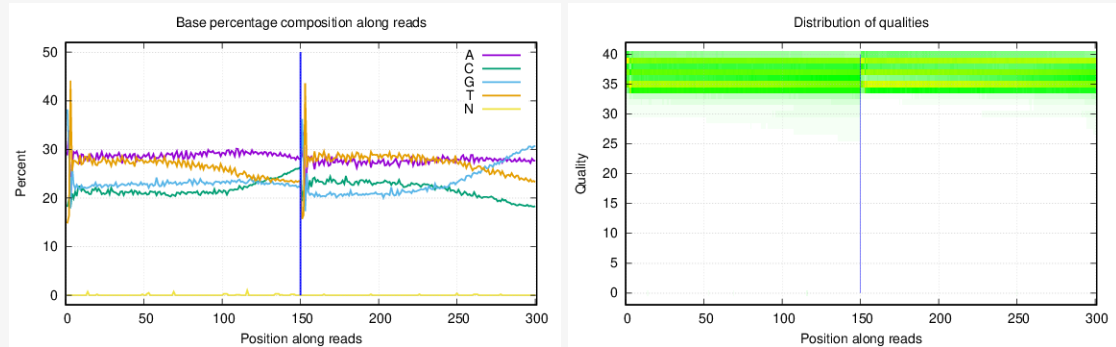
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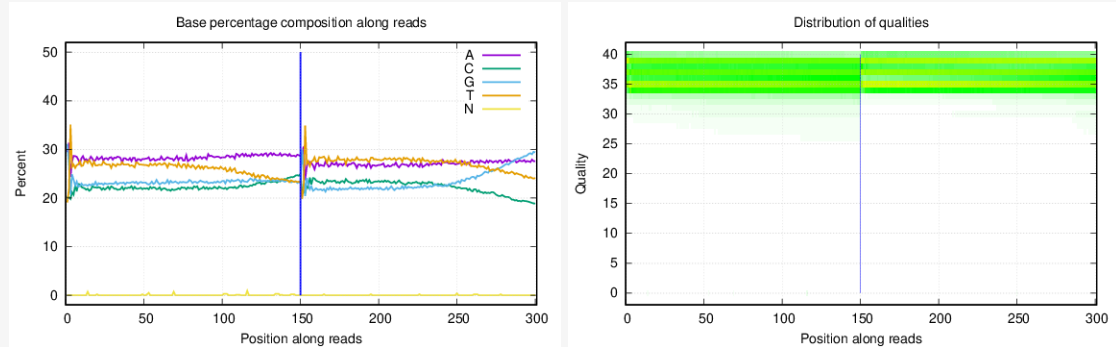
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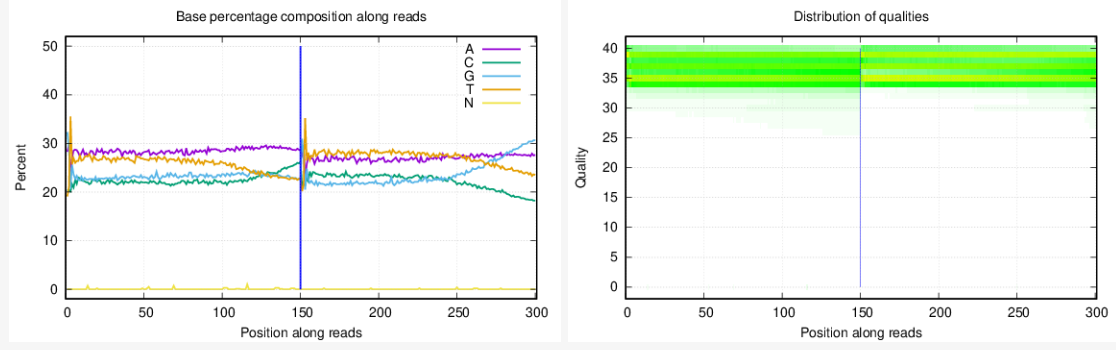
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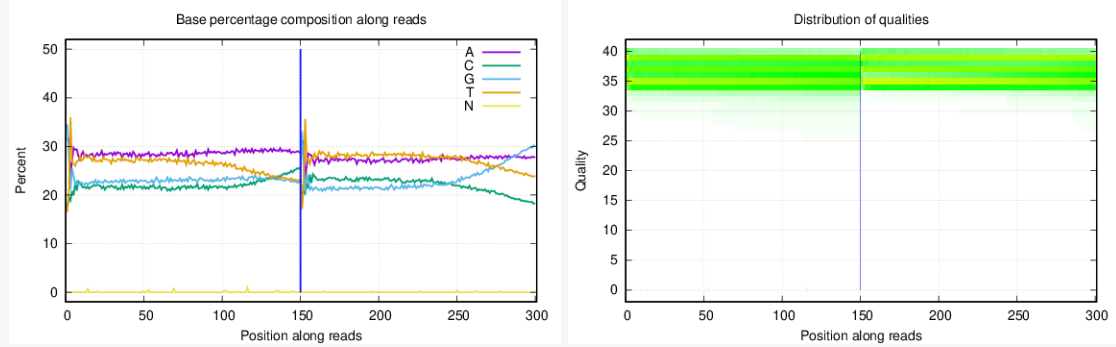
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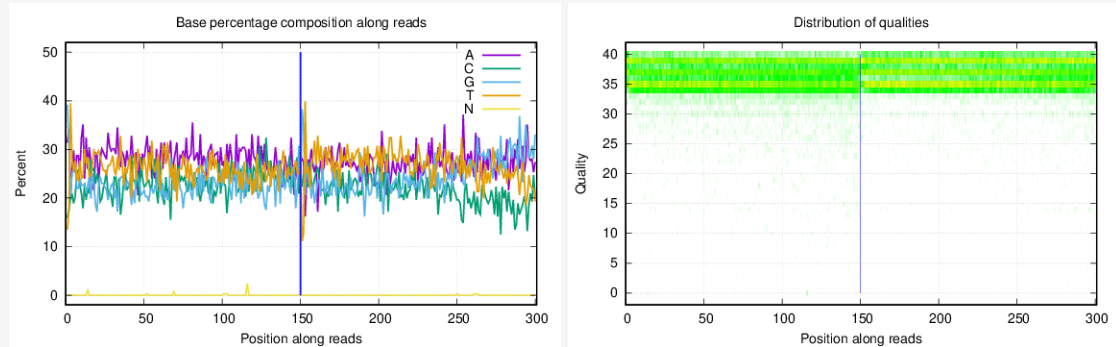
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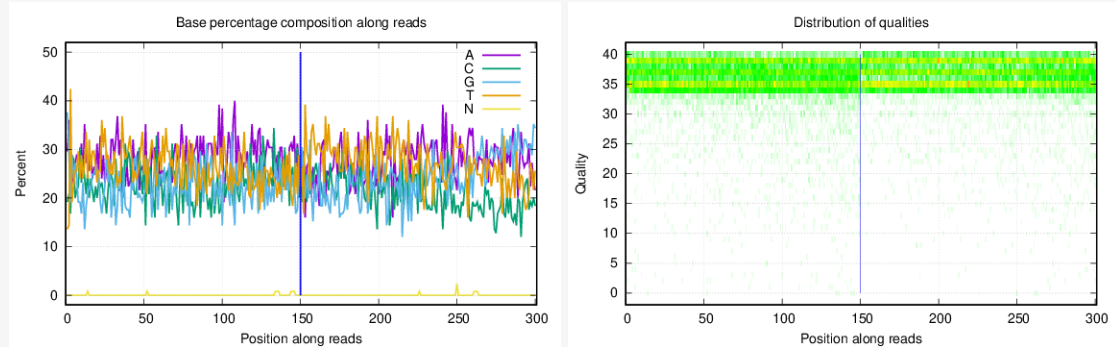
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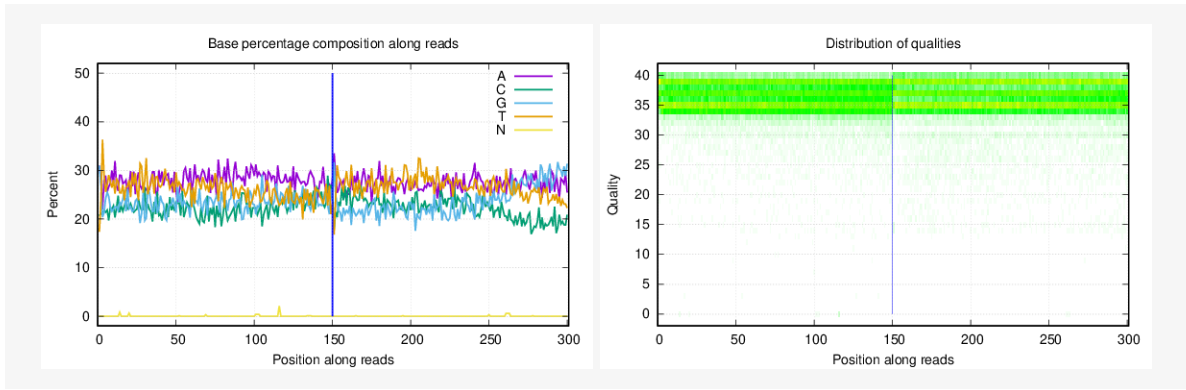
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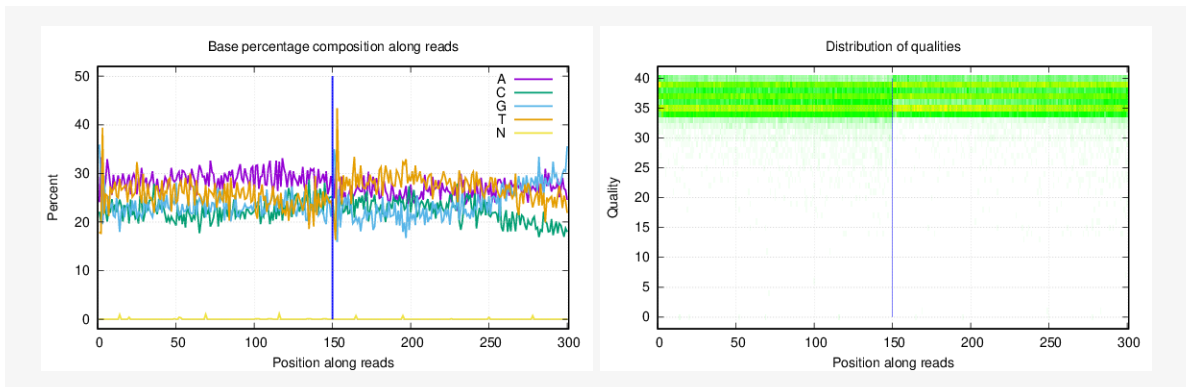
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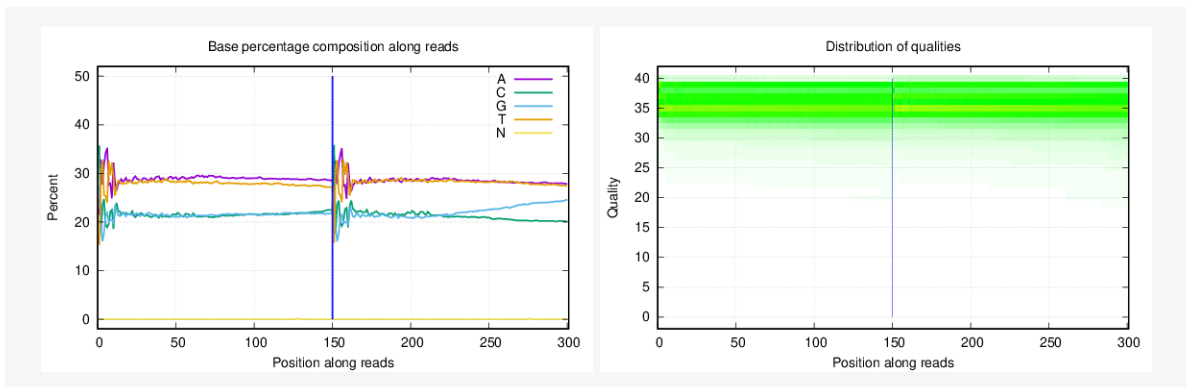
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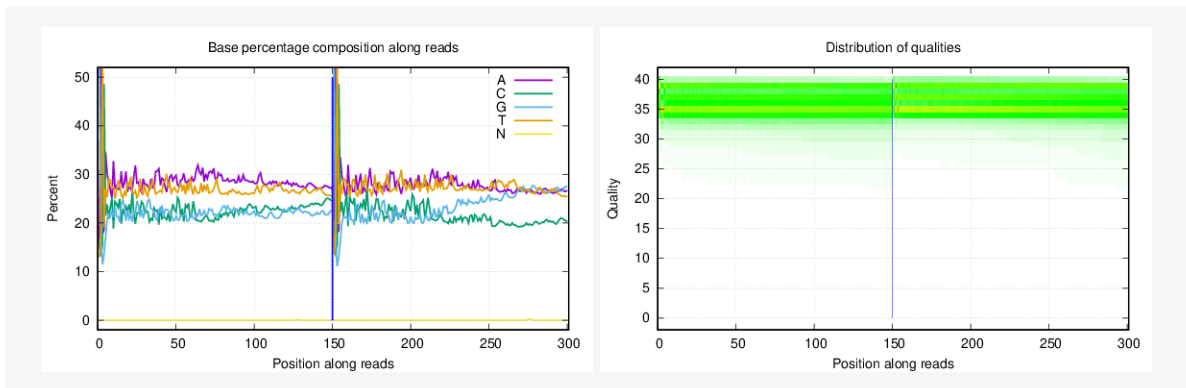
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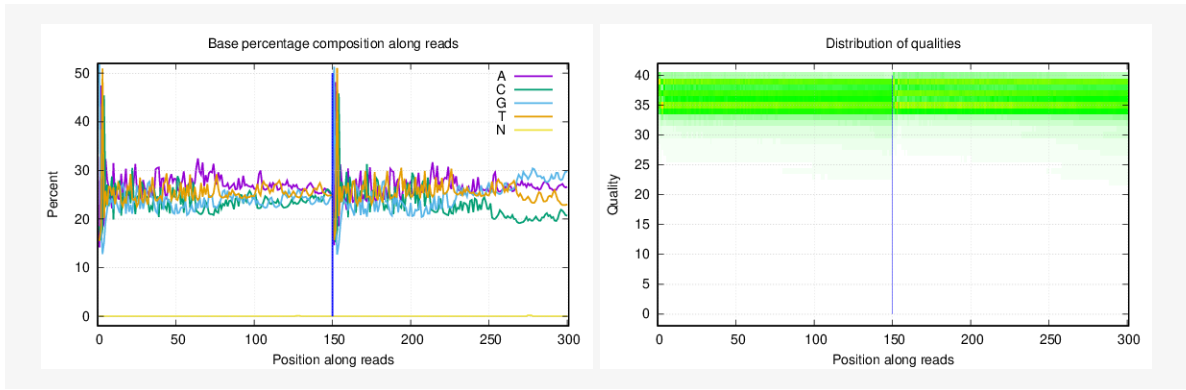
Y226A_a-R1



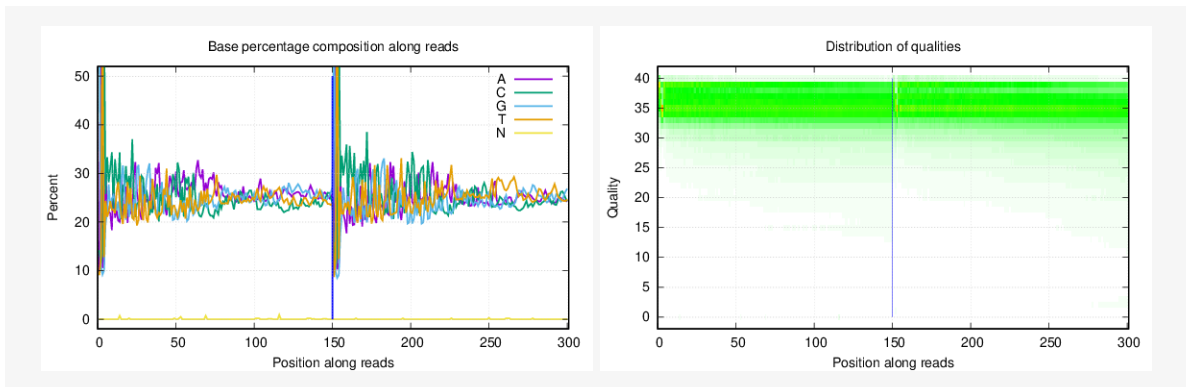
brInt-R1



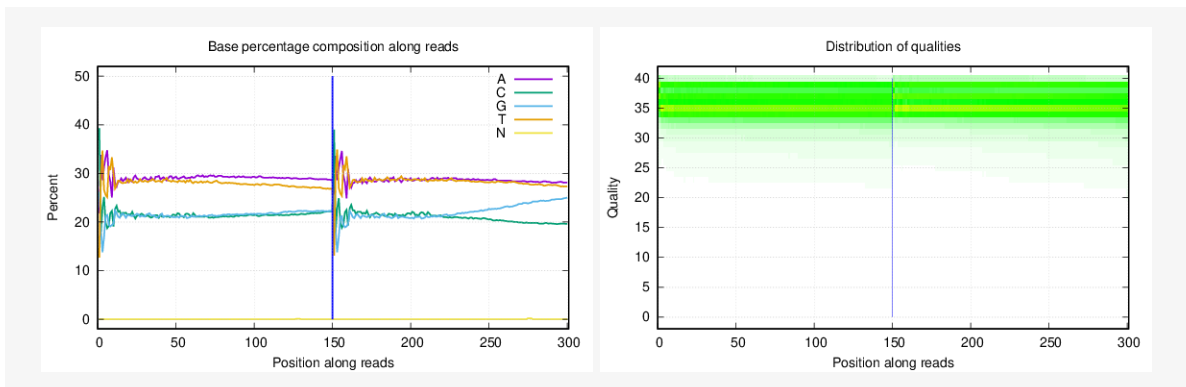
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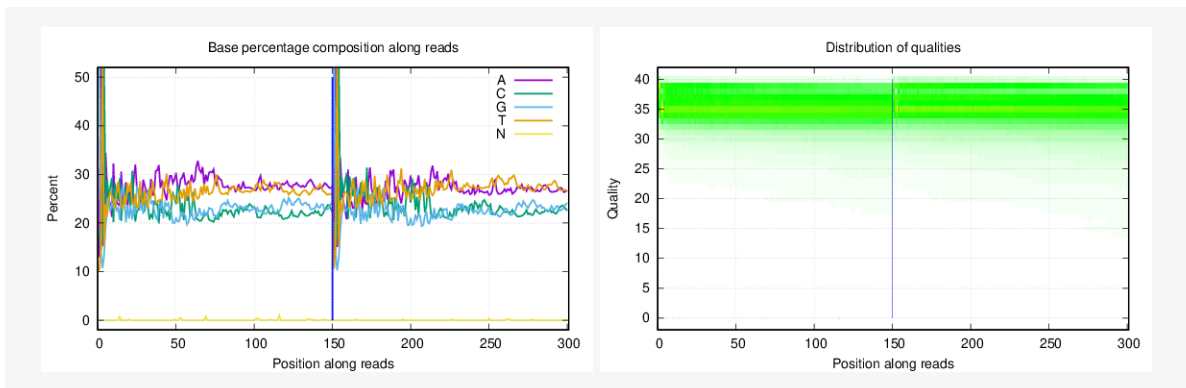
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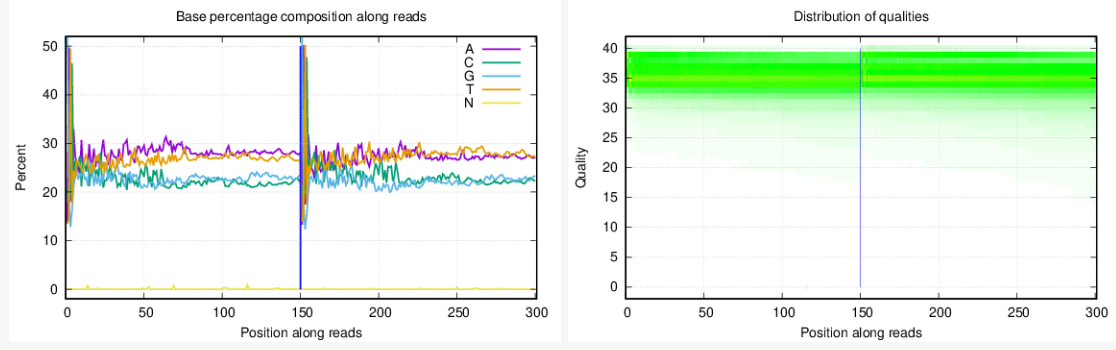
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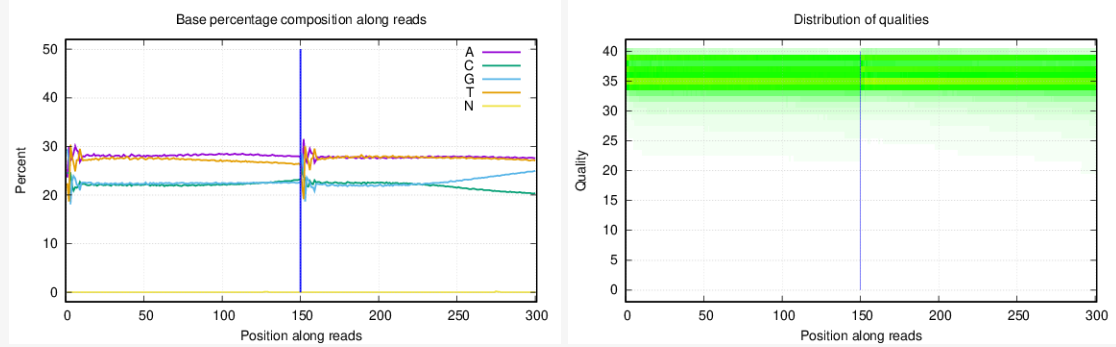
hCTCF_R4



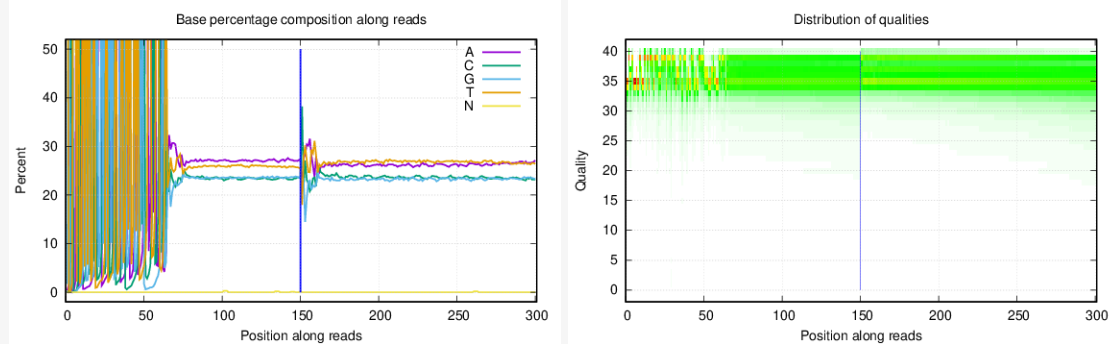
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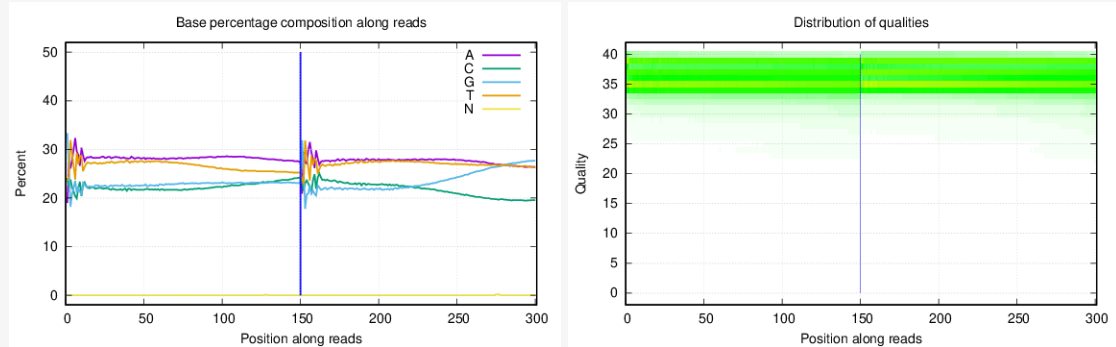
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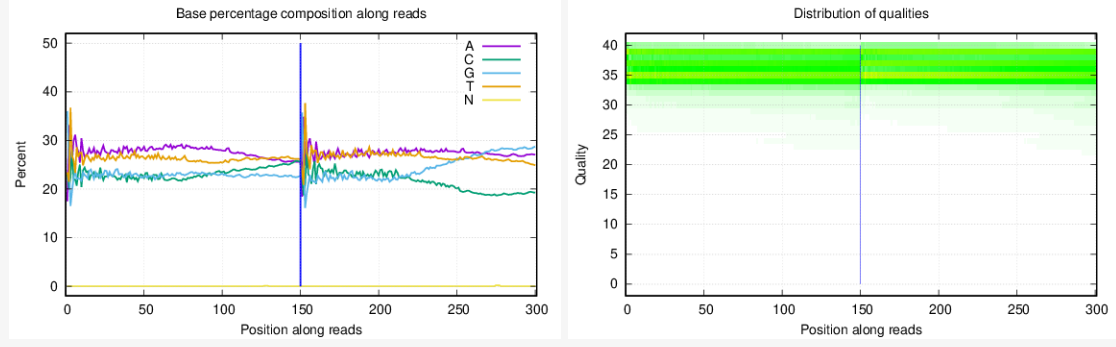
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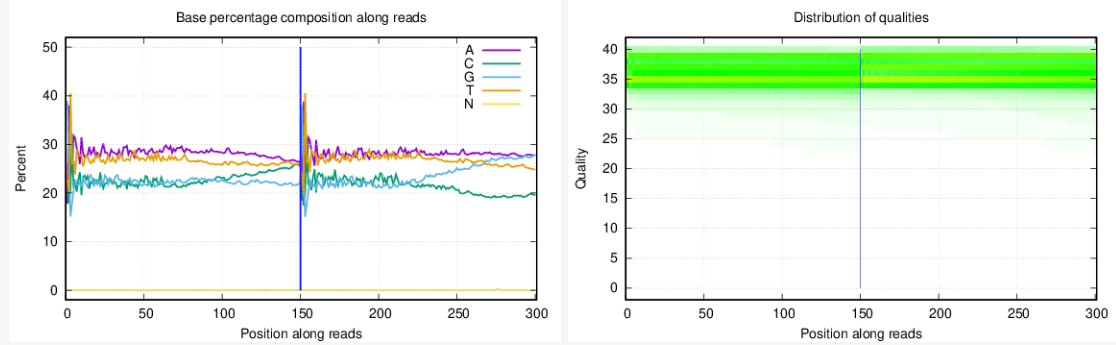
mutR29W-R2



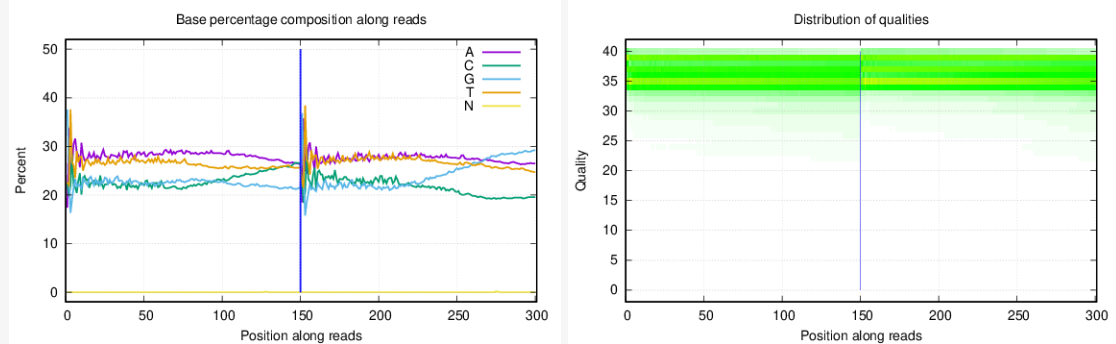
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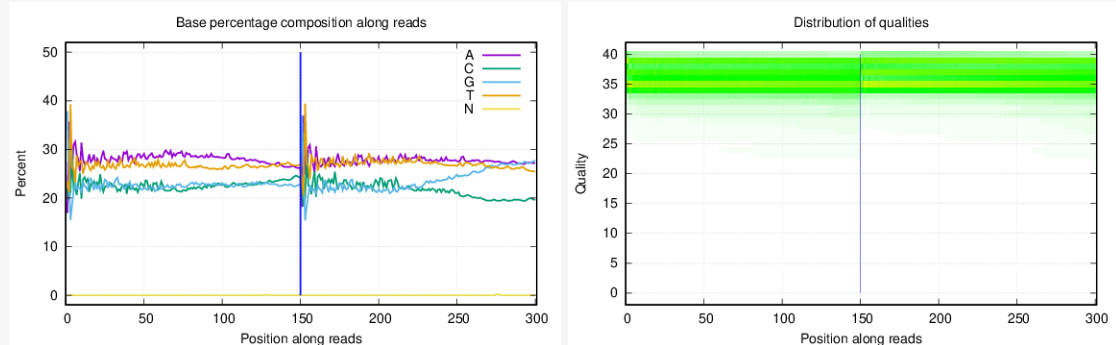
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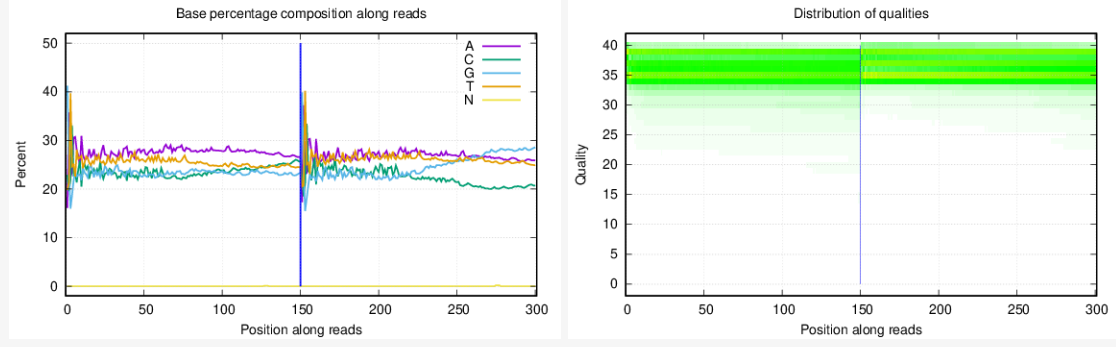
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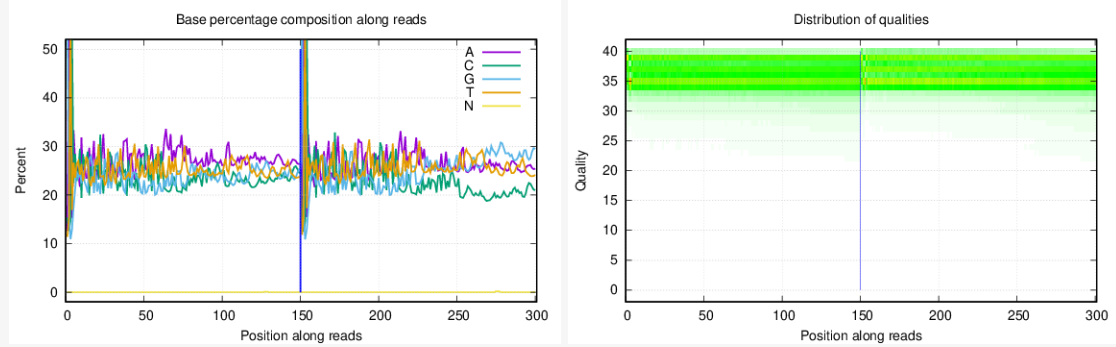
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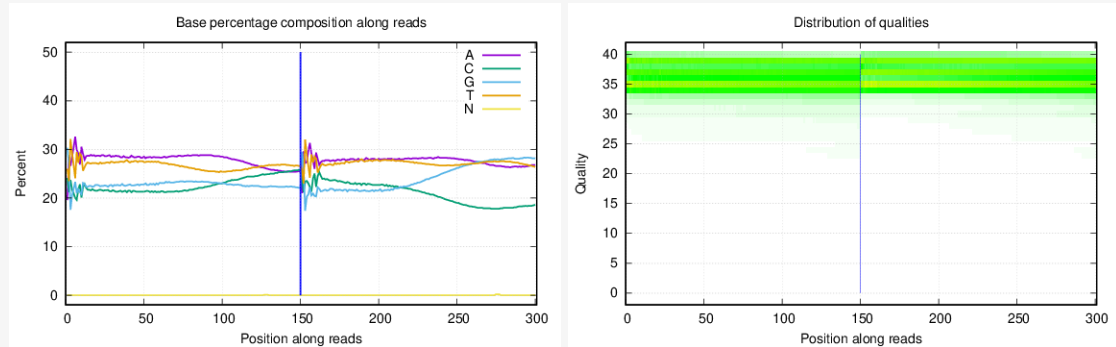
mutY226A_a-R3



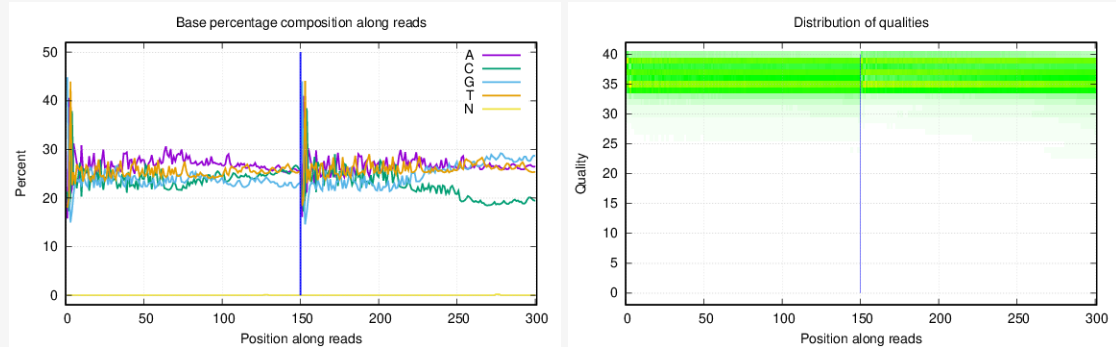
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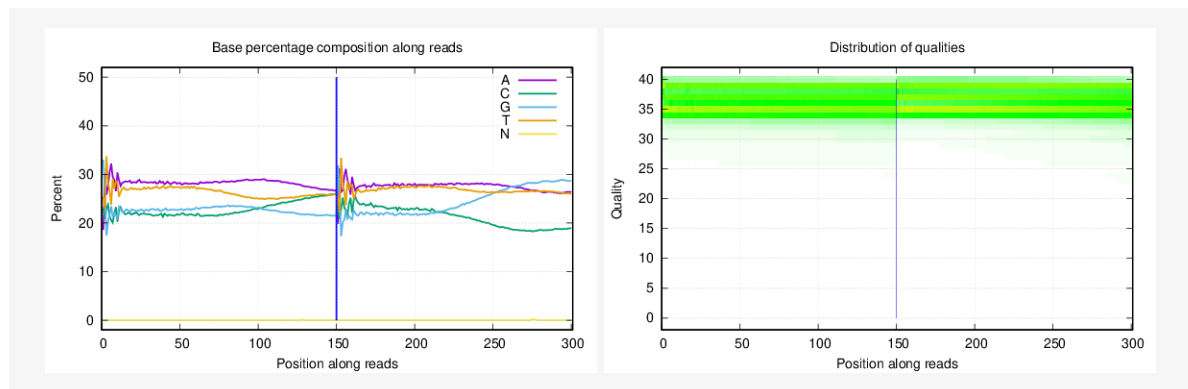
mutY226C_R2



mutY226C_a-R3



mutY226C_a_R2



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
+
FFFCFFFFFFFFDFEFFFFEF0FFFEFFFFFFFFEFFFFEFCGFFFF
```

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	?



Omics For All

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