

Figure 1 A 2D read aligned to the reference – yeast S288C.

Σ							Termina	al					
<u>F</u> ile	<u>E</u> dit <u>V</u> iew	<u>T</u> ermina	l <u>H</u> elp										
ef N	IC 001133	23700	AGGAT	8	t	8936	67.13	0.082	AGGAT	68.67	1.79	template median62pA	^
efiN	IC 001133	23701	GGATA	8	t	8937	62.98	0.010	GGATA	64.00	2.29	template median62pA	
ef N	IC 001133	23701	GGATA	8	t	8938	66.56	0.124	GGATA	64.00	2.29	template median62pA	
efĺN	IC 001133	23701	GGATA	8	t	8939	62.69	0.007	GGATA	64.00	2.29	template median62pA	
ef N	IC 001133	23701	GGATA	8	t	8940	66.23	0.009	GGATA	64.00	2.29	template median62pA	
ef N	IC 001133	23702	GATAT	8	t	8941	57.90	0.008	GATAT	57.01	0.79	template median62pA	
ef N	IC 001133	23703	ATATA	8	t	8942	58.87	0.055	ATATA	59.57	1.77	template median62pA	
ef N	IC 001133	23704	TATAA	8	t	8943	60.73	0.062	TATAA	61.38	2.56	template median62pA	
ef N	IC 001133	23705	ATAAA	8	t	8944	65.26	0.075	ATAAA	64.24	1.79	template median62pA	
efiN	IC 001133	23707	AAATC	8	t	8945	55.10	0.184	AAATC	55.67	1.70	template median62pA	
ef N	IC 001133	23709	ATCAA	8	t	8946	66.09	0.223	ATCAA	62.43	2.38	template median62pA	
efiN	IC 001133	23710	TCAAA	8	t	8947	61.63	0.017	TCAAA	64.52	1.62	template median62pA	
efiN	IC 001133	23711	CAAAA	8	t	8948	66.38	0.011	CAAAA	64.76	1.26	template median62pA	
efiN	IC 001133	23718	AAAAA	8	t	8949	65.27	0.643	AAAAA	63.94	0.80	template median62pA	
efiN	IC 001133	23720	AAAAA	8	t	8950	65.25	0.037	AAAAA	63.94	0.80	template median62pA	
efiN	IC 001133	23722	AAAAA	8	t	8951	65.19	0.082	AAAAA	63.94	0.80	template median62pA	
efiN	IC 001133 i	23724	AAAAA	8	t	8952	65.26	0.049	AAAAA	63.94	0.80	template median62pA	
efiN	IC 001133	23726	AAAAA	8	t	8953	65.69	0.020	AAAAA	63.94	0.80	template median62pA	
efiN	IC 001133	23728	AAAAA	8	t	8954	65.02	0.143	AAAAA	63.94	0.80	template median62pA	
efiN	IC 001133 i	23730	AAAAA	8	t	8955	63.00	0.013	AAAAA	63.94	0.80	template median62pA	
efiN	IC 001133 i	23730	AAAAA	8	t	8956	65.81	0.259	AAAAA	63.94	0.80	template median62pA	
efiN	IC 001133	23730	AAAAA	8	t	8957	65.64	0.033	AAAAA	63.94	0.80	template median62pA	
	IC 001133	23730	AAAAA	8	t	8958	66.53	0.111	AAAAA	63.94	0.80	template median62pA	
	IC 001133	23730	AAAAA	8	t	8959	66.29	0.384	AAAAA	63.94	0.80	template median62pA	
	IC 001133	23731	AAAAA	8	t	8960	65.43	0.019	AAAAA	63.94	0.80	template median62pA	
	IC 001133	23733	AAATT	8	t	8961	57.39	0.052	AAATT	56.99	1.19	template median62pA	
	IC 001133	23734	AATTA	8	t	8962	50.36	0.011	AATTA	50.37	0.74	template median62pA	
efiN	IC 001133	23735	ATTAA	8	t	8963	57.54	0.033	ATTAA	55.63	2.21	template median62pA	
	IC 001133	23736	TTAAA	8	t	8964	66.66	0.018	TTAAA	63.68	1.97	template median62pA	
	IC 001133	23737	TAAAT	8	t	8965	64.45	0.059	TAAAT	63.91	0.76	template median62pA	
	IC 001133	23738	AAATA	8	t	8966	58.46	0.034	AAATA	58.42	0.84	template median62pA	
	IC 001133	23740	ATAAA	8	ť	8967	66.45	0.048	ATAAA	64.24	1.79	template median62pA	
	IC 001133	23741	TAAAT	8	ť	8968	64.89	0.009	TAAAT	63.91	0.76	template median62pA	
	IC 001133	23742	AAATA	8	t	8969	59.03	0.039	AAATA	58.42	0.84	template median62pA	
	IC 001133	23744	ATAAA	8	ť	8970	66.51	0.102	ATAAA	64.24	1.79	template median62pA	
"				_		2370	55.51	0.102		J	2.75	comp ca co_meditanozpii	

Figure 2 Event profile at the targeted region from template strain Read 8 – kmers of AAAAA are presented both in the reference and in the raw data.

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ref NC_001133 23749 TAAAA 8 c 3786 47.95 0.023 TTTTA 46.87 1.30 complement_median62	
ref NC_001133 23750 AAAAT 8 c 3785 45.40 0.256 ATTTT 45.26 0.58 complement_median62	
ref NC_001133 23751 AAATA 8 c 3784 48.32 0.034 TATTT 49.30 1.38 complement_median62	_pop1
ref NC_001133 23752 AATAA 8 c 3783 58.12 0.008 TTATT 58.36 1.03 complement_median62	
ref NC_001133 23752 AATAA 8 c 3782 56.03 0.041 TTATT 58.36 1.03 complement_median62	
ref NC_001133 23753 ATAAA 8 c 3781 56.13 0.017 TTTAT 53.28 1.75 complement_median62	
ref NC_001133 23754 TAAAT 8 c 3780 48.29 0.020 ATTTA 47.22 0.85 complement_median62	_pop1
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Figure 3 Event profile at the targeted region from reverse complement strain Read 8 – kmers of AAAA are not presented.

						Termina	al					
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ref NC 001133	23704	TATAA	13	t	1958	60.76	0.009	TTATA	60.56	1.77	template median62pA	^
ref[NC 001133	23705	ATAAA	13	t	1957	54.62	0.030	TTTAT	54.40	2.43	template median62pA	
ref NC 001133	23706	TAAAT	13	t	1956	48.66	0.010	ATTTA	48.29	1.19	template median62pA	
ref[NC_001133	23707	AAATC	13	t	1955	49.80	0.013	GATTT	49.71	2.28	template median62pA	
ref NC 001133	23708	AATCA	13	t	1954	60.14	0.003	TGATT	60.73	2.06	template median62pA	
ref NC_001133		AATCA	13	t	1953	68.62	0.009	TGATT	60.73	2.06	template median62pA	
ref NC 001133	23709	ATCAA	13	t	1952	59.03	0.020	TTGAT	58.51	2.93	template median62pA	
ref NC_001133	23710	TCAAA	13	t	1951	52.05	0.035	TTTGA	52.46	1.29	template_median62pA	
ref NC_001133	23710	TCAAA	13	t	1950	53.96	0.010	TTTGA	52.46	1.29	template median62pA	
ref NC_001133		TCAAA	13	t	1949	52.11	0.021	TTTGA	52.46	1.29	template_median62pA	
ref NC_001133		CAAAA	13	t	1948	47.19	0.012	TTTTG	47.48	1.76	template_median62pA	
ref NC_001133	23712	AAAAA	13	t	1947	45.46	0.032	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1946	47.96	0.007	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133	23716	AAAAA	13	t	1945	45.83	0.128	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1944	48.56	0.024	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1943	45.96	0.040	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1942	49.18	0.004	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1941	45.85	0.079	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1940	46.53	0.014	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1939	48.57	0.013	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1938	46.09	0.065	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1937	48.64	0.009	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1936	46.00	0.145	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1935	45.93	0.032	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1934	48.27	0.008	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAA	13	t	1933	45.95	0.051	TTTTT	46.53	1.83	template_median62pA	
ref NC_001133		AAAAT	13	t	1932	46.00	0.158	ATTTT	46.32	0.81	template_median62pA	
ref NC_001133		AAATT	13	t	1931	47.74	0.033	AATTT	48.94	1.75	template_median62pA	
ref NC_001133		AAATT	13	t	1930	53.06	0.011	AATTT	48.94	1.75	template_median62pA	
ref NC_001133		AAATT	13	t	1929	47.60	0.011	AATTT	48.94	1.75	template_median62pA	
ref NC_001133		AATTA	13	t	1928	57.67	0.020	TAATT	60.10	2.06	template_median62pA	
ref NC_001133		ATTAA	13	t	1927	65.35	0.008	TTAAT	64.42	1.87	template_median62pA	
ref NC_001133		ATTAA	13	t	1926	69.75	0.004	TTAAT	64.42	1.87	template_median62pA	
ref NC_001133		ATTAA	13	t	1925	65.40	0.019	TTAAT	64.42	1.87	template_median62pA	
ref NC_001133	23736	TTAAA	13	t	1924	58.26	0.010	TTTAA	55.86	3.27	template_median62pA	
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Figure 4 Event profile at the targeted region from template strain Read 13 – kmers of AAAAA are presented in both reference and the raw data.

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Ref NC 001133 23701 GGATA 13 C 1235 76.49 0.013 GGATA 71.20 4.88 complement median6: ref NC 001133 23703 ATATA 13 C 1236 59.09 0.128 GATAT 59.16 2.31 complement median6: ref NC 001133 23705 ATATA 13 C 1238 64.89 0.009 ATATA 61.82 1.86 complement median6: ref NC 001133 23705 ATAAA 13 C 1238 64.89 0.009 ATAAA 64.41 2.68 complement median6: ref NC 001133 23706 ATAAA 13 C 1239 73.75 0.010 ATAAA 64.41 2.68 complement median6: ref NC 001133 23706 ATAAA 13 C 1240 66.70 0.008 TAAAT 67.41 1.30 complement median6: ref NC 001133 23708 AATCA 13 C 1241 52.24 0.014 AATCA 53.00 2.47 complement median6: ref NC 001133 23708 AATCA 13 C 1242 50.22 0.008 AATCA 53.00 2.47 complement median6: ref NC 001133 23709 ATCAA 13 C 1243 52.60 0.013 AATCA 53.00 2.47 complement median6: ref NC 001133 23709 ATCAA 13 C 1244 58.44 0.019 ATCAA 68.35 1.34 c c c c c c c c c	
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ref NC_001133 23767 ATCGA 13 c 1261 61.79 0.029 ATCGA 60.03 3.82 complement_median6	
ref NC_001133 23768 TCGAT 13 c 1262 68.51 0.037 TCGAT 68.59 2.30 complement_median6	
ref NC_001133 23770 GATAA 13 c 1263 58.48 0.010 GATAA 59.57 2.28 complement_median6	
ref NC_001133 23771 ATAAC 13 c 1264 63.78 0.039 ATAAC 63.44 2.13 complement_median6	pA_pop2
ref NC_001133 23772 TAACG 13 c 1265 59.83 0.032 TAACG 62.18 2.22 complement_median6	
ref NC_001133 23773 AACGG 13 c 1266 63.33 0.027 AACGG 61.49 2.47 complement_median6	
ref NC_001133 23774 ACGGT 13 c 1267 68.88 0.026 ACGGT 68.78 2.14 complement_median6	
ref NC_001133 23775 CGGTG 13 c 1268 60.24 0.014 CGGTG 60.23 4.48 complement_median6	pA_pop2
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Figure 5 Event profile at the targeted region from reverse complement strain Read 13 – kmers of AAAAA are not presented.

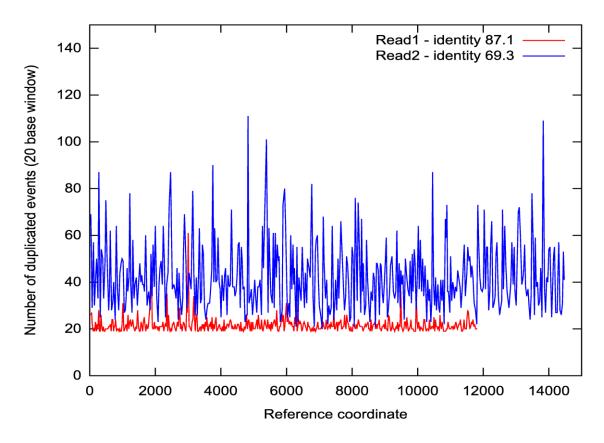


Figure 6 Read base quality is consistent with the number of erroneous kmer events.