

Table S2. Sequencing statistics (SOLID S500)

MBcNr	TOTALREADS	TOTAL_MAPPED	%_mapped	FW_MAPPED	%_FW_MAPPED	RV_MAPPED	%_RV_MAPPED	UNIQUE_MAPPED	%_UNIQUE_MAPPED	INTARGET_BASES	%_INTARGET	AVG_COVERAGE	MED_COVERAGE	PC_UNCOV	PC_COV>=1	PC_COV>=20	EVENNESS	COMPLEXITY_FW	COMPLEXITY_RV
002R	8,320,478	7,172,705	86	3,717,010	45	3,455,695	42	6,604,603	79	239,262,941	70	43	22	22	78	52	81.52	3.5	4.06
002Z	41,622,790	37,261,268	90	19,088,310	46	18,172,958	44	34,829,098	84	1,154,088,530	65	206	127	6	94	82	78.03	11.3	14.05
003R	22,423,521	17,799,764	79	9,632,011	42	8,336,563	37	16,449,660	73	482,207,739	56	86	63	6	94	77	76	10.01	11.84
003Z	26,169,304	21,530,988	82	10,337,718	47	9,632,011	39	19,311,926	73	693,131,926	66	131	89	7	93	77	79	15.52	18.32
004R	29,675,562	26,776,281	90	12,973,556	44	13,802,725	47	25,076,692	85	893,141,822	70	159	105	7	93	80	78.75	10.65	14.22
004T	27,907,915	24,752,812	89	12,996,355	47	11,756,457	42	23,092,885	83	774,466,910	65	138	84	9	91	77	78.77	7	8.59
005R	12,956,546	10,609,301	82	5,466,115	42	5,143,186	40	9,888,878	76	347,234,074	68	62	40	10	90	65	79	8.63	10.5
005T	15,548,867	12,612,354	81	6,619,999	43	5,996,355	39	11,670,754	75	396,141,319	65	71	47	7	93	81	77	10.17	11.99
006R	39,965,500	31,855,249	80	14,609,926	37	14,609,926	37	29,556,252	74	1,062,613,225	70	189	130	5	95	79	77.33	14.91	16.98
007R	5,040,912	4,386,589	87	2,239,744	44	2,146,845	43	4,031,445	80	147,410,801	70	26	12	23	7	95	79	81.25	3.12
007T	46,703,257	40,499,619	87	20,384,316	44	20,115,303	43	43,838,156	81	1,210,086,831	62	216	154	5	97	85	77.79	2.82	24.46
008R	30,960,585	24,864,662	80	12,549,792	41	12,314,870	40	23,047,702	74	730,924,461	61	130	92	5	95	82	76	12.97	16.45
008T	46,450,087	39,520,599	85	19,633,773	42	20,086,826	43	36,769,750	79	1,106,699,537	58	197	126	6	94	79	80	16.71	22.76
009T	43,139,330	36,680,702	90	19,563,871	45	19,116,831	44	36,472,690	85	1,275,380,999	69	227	146	5	95	84	77	18.26	22.86
010R	18,254,299	14,878,699	82	7,178,956	42	7,178,956	39	13,851,608	76	48,974,730	68	87	57	8	92	73	78	10.44	12.58
010T	28,670,371	23,884,166	83	12,203,555	43	11,680,611	41	22,528,870	78	745,329,948	65	133	87	6	94	77	79	15.39	19.41
011T	48,321,270	42,947,709	89	21,651,197	45	21,296,512	44	40,531,945	84	1,439,509,917	70	256	173	4	96	86	77	17.47	21.97
012R	63,084,729	57,058,650	90	28,878,898	46	28,179,752	45	53,356,743	85	1,682,905,646	61	300	211	5	95	86	76	21.34	28.09
012T	74,095,137	67,524,272	91	34,016,073	46	33,508,199	45	60,415,193	85	1,880,957,897	58	335	224	5	95	86	79.23	21.14	28.08
015R	64,369,079	53,967,741	84	27,817,897	43	26,149,844	41	50,644,898	86	1,696,749,888	66	302	219	4	96	87	77.76	25.43	32.16
015T	67,805,282	56,884,442	84	29,727,636	44	27,156,806	40	52,967,824	78	1,720,657,574	63	306	213	4	96	87	77.55	27.1	33.62
016R	88,609,647	78,491,267	89	39,523,737	45	38,967,530	44	72,918,368	82	1,968,054,908	52	350	279	3	97	91	75.39	24.69	30.98
016T	53,960,005	48,221,016	89	24,029,919	44	24,180,977	45	45,304,204	84	1,452,841,761	65	266	185	4	94	87	77	24.94	32.89
018T	41,648,126	36,684,028	88	18,343,612	44	18,337,716	44	34,187,601	82	1,122,287,934	64	200	139	5	94	84	78	19.73	25.31
019R	40,868,485	34,891,416	85	18,278,240	45	18,278,240	44	32,669,771	81	1,054,754,993	63	188	117	7	93	87	81	22.38	28.22
019T	35,911,107	30,406,224	85	15,678,635	44	14,637,589	44	28,622,431	80	911,344,589	62	162	104	7	93	87	80	17.73	22.89
021R	106,944,790	93,596,702	88	47,011,446	44	46,852,256	41	87,273,810	82	2,621,730,277	58	465	315	4	96	86	81	25.12	32.71
021T	48,926,182	42,125,940	86	21,117,024	43	21,008,916	43	39,542,629	81	1,250,080,611	62	223	150	6	94	81	81	16.84	22.25
022T	51,865,532	46,014,477	89	23,089,607	44	22,924,870	44	43,094,292	83	1,430,968,120	65	255	188	4	96	89	75	21.65	27.76
023R	89,028,937	81,181,697	91	39,677,757	45	41,503,940	47	75,934,619	85	2,180,806,566	56	388	295	4	96	88	79.16	27.74	38.85
023T	45,622,046	40,724,866	89	20,602,565	45	20,121,921	44	38,292,604	84	1,235,299,634	63	220	141	6	94	84	77.75	17.49	23.06
024R	26,042,473	21,492,913	83	10,865,746	42	10,627,167	41	19,481,345	75	549,837,396	53	98	66	6	94	76	77	10.06	12.12
024T	29,198,587	24,511,597	84	12,435,738	43	12,075,859	41	22,158,754	76	618,820,260	53	110	70	7	93	75	77.92	11.46	13.85
025R	25,752,163	19,957,667	78	10,342,312	40	9,615,355	37	17,935,459	70	489,314,429	65	87	48	15	85	68	79.25	5.55	8.68
025T	32,430,715	25,805,125	80	13,296,110	41	12,509,015	39	23,415,485	72	700,570,988	57	125	77	10	90	67	78.65	6.18	7.59
026R	25,268,836	19,988,768	79	10,054,750	40	9,934,018	39	17,999,433	71	525,751,659	55	94	54	14	86	69	80.12	5.17	7.03
026T	23,227,439	18,514,528	80	9,438,147	41	9,076,381	39	17,075,224	74	517,630,505	58	92	52	14	86	69	78.45	4.6	5.76
028T	45,315,482	40,310,157	89	19,830,983	44	19,830,983	44	37,951,811	84	1,309,681,115	68	233	157	4	96	86	76	20.27	25.42
029R	17,111,028	15,511,207	91	7,862,910	46	7,648,297	45	14,472,976	85	481,475,638	65	86	50	9	99	89	78.94	7.07	8.57
029T	41,420,071	36,530,457	88	18,615,426	45	17,915,031	43	34,346,054	83	1,185,233,309	68	211	148	5	95	84	78	18.7	23.45
030T	50,556,417	44,111,380	87	22,234,244	44	21,877,136	43	41,361,962	82	1,389,981,878	66	248	167	5	95	83	79	17.41	22.21
031R	53,600,834	45,579,251	85	23,794,133	43	23,794,133	43	42,425,126	79	1,276,323,485	58	227	161	5	95	83	80	22.61	31.35
031T	49,531,711	41,849,817	84	21,486,893	43	20,362,924	41	39,248,112	79	1,224,841,428	61	218	150	5	95	83	78	14.23	18.2
032T	65,072,309	55,360,382	87	28,539,328	44	28,934,654	43	52,980,621	81	1,749,283,661	65	311	213	5	95	80	79	21.09	27.07
033R	42,438,212	35,255,313	83	17,905,758	42	17,905,758	42	30,289,012	78	1,002,854,545	59	179	116	6	94	80	79	15.33	19.89
033T	31,142,584	25,735,181	83	13,135,388	42	12,599,793	40	23,860,194	77	724,731,027	59	129	84	7	93	75	80	13.37	17.1
034R	22,834,752	20,418,184	89	10,188,233	45	10,188,233	45	18,863,431	83	596,253,265	61	106	61	9	91	71	79.9	7.68	9.49
034T	37,366,758	32,790,557	88	16,482,590	44	16,307,967	44	30,268,466	81	926,170,162	59	165	103	7	93	78	79.48	10.26	12.67
035T	62,386,650	52,361,094	84	26,023,718	42	26,023,718	42	48,885,806	78	1,556,694,933	62	277	188	4	96	86	78	20.55	26.95
036R	46,045,944	40,841,557	89	20,718,877	45	20,122,680	44	37,760,091	82	1,202,909,941	61	214	151	5	95	85	77.3	13.34	17.18
036T	62,961,731	54,563,880	87	27,383,101	43	27,180,779	43	49,942,237	79	1,469,553,681	56	262	182	4	96	87	76.83	17.24	22.54
037R	58,417,641	48,624,678	83	25,396,294	43	23,228,384	40	45,141,864	77	1,453,207,489	62	259	176	5	95	88	75.1	12.58	15.49
037T	49,191,234	41,489,611	84	21,570,473	44	19,919,138	40	38,406,944	78	1,142,982,047	57	204	139	5	95	84	77	13.5	17.3
038R	19,894,981	15,959,551	82	8,211,577	42	7,737,974	40	14,581,978	75	474,709,978	62	85	47	12	62	67	62	79.84	4.94
038T	23,632,069	19,764,362	84	10,169,707	43	9,594,655	41	17,951,481	76	555,474,121	59	99	60	8	92	72	78.52	7.42	8.64
039T	35,428,630	29,652,273	84	15,344,271	43	14,308,002	40	26,901,895	76	820,977,598	64	146	96	7	93	78	78.64	10.41	12.36
040R	47,089,827	38,444,425	82	19,561,437	42	18,882,988	40	35,530,700	75	1,060,620,631	58	189	126	7	93	82	78.42	10.55	13.77
040T	53,720,718	43,915,483	82	22,401,457	42	21,514,026	40	39,917,162	74	1,143,234,723	54	204	141	5	95	85	77.36	12.27	16.1
041R	68,103,530	58,590,150	86	29,284,113	43	29,306,031	43	54,606,259	80	1,660,193,064	59	296	200	6	94	84	79.79	16.56	22.34
041T	66,506,134	56,163,771	84	29,047,090															

079T	99,895,775	82,995,709	83	41,617,527	42	41,378,182	41	75,784,711	76	1,822,440,202	46	325	258	3	97	93	71.48	26.11	33.2
081R	30,578,770	23,841,580	78	12,259,859	40	11,581,721	38	21,492,264	70	587,118,251	51	105	77	4	96	83	73.51	12.64	15.67
081T	51,096,908	39,548,795	77	20,254,266	40	19,294,529	38	36,148,391	71	980,187,856	52	175	116	4	96	86	73.7	19.18	24.03
082T	30,925,547	23,940,545	77	12,610,707	41	11,329,837	41	22,138,872	72	732,884,287	64	131	91	5	95	81	76.59	11.35	13.41
083R	45,741,150	35,426,029	77	18,222,307	42	17,203,722	38	32,488,585	71	926,500,131	55	165	114	4	96	84	76.43	20.77	25.52
083T	57,622,350	46,489,667	81	24,234,217	42	22,255,450	39	42,936,507	75	1,337,697,811	60	238	173	3	97	89	74.24	17.26	21.31
084T	30,117,898	20,577,993	82	12,745,600	41	12,049,097	41	23,959,567	71	670,924,771	55	119	83	5	95	80	75.1	15.45	19.45
085R	73,103,444	60,225,520	82	30,163,493	41	30,061,757	41	55,869,231	76	1,596,049,138	55	284	214	3	97	92	70.61	32.22	42.37
085T	63,871,493	50,410,144	79	25,567,064	40	24,843,800	39	46,901,284	73	1,262,212,612	52	225	138	4	96	89	72.74	26.37	33.5
088T	52,409,154	45,325,602	86	22,939,364	44	22,886,238	43	42,045,409	80	1,348,202,673	62	240	173	4	96	88	74.87	14.78	18.45
090T	20,591,146	17,112,065	83	9,040,931	44	8,071,134	39	15,920,352	77	577,485,673	70	103	63	9	91	72	79.24	9.12	10.49
091T	44,835,145	38,275,904	85	19,058,135	43	19,217,769	43	35,310,356	79	1,065,498,658	58	190	144	4	96	87	74.44	16.98	21.97
092T	44,242,387	38,117,076	86	19,415,009	42	18,702,067	42	35,693,993	81	1,217,314,399	67	217	163	4	96	90	73.78	16.34	20.26
093T	36,963,972	30,254,566	82	15,596,262	42	14,658,304	40	28,321,101	77	996,722,996	69	178	123	5	95	83	76.95	13.65	16.62
095R	45,242,633	36,007,474	80	18,064,704	40	17,942,770	40	33,141,453	73	994,516,814	58	177	129	4	96	87	74.86	19.18	24.54
095T	49,062,640	40,911,425	83	20,373,539	42	20,537,886	42	38,250,881	78	1,195,782,406	61	213	162	4	96	87	75.08	19.45	25.95
096T	26,138,031	20,147,724	77	10,600,187	41	9,547,537	37	18,570,597	71	620,297,711	64	110	69	8	92	74	78.91	8.06	9.51
099T	65,593,678	52,003,261	79	26,279,019	40	25,724,242	39	48,015,050	73	1,607,797,560	65	296	209	3	97	89	76.86	25.77	32.56
100R	24,396,922	18,728,604	77	10,286,427	40	8,992,133	37	17,122,924	70	548,855,208	61	98	63	7	93	75	77.66	13.37	15.62
100T	48,454,737	38,706,842	80	20,222,520	42	18,048,322	38	35,808,455	74	993,604,578	53	177	122	4	96	87	73.59	23.6	28.78
101T	44,052,241	36,286,844	82	18,245,780	41	18,041,064	41	33,655,803	76	1,027,051,767	59	183	133	4	96	89	72.05	17.91	22.03
102T	45,597,935	38,526,914	84	18,540,793	41	19,986,121	44	35,917,849	79	1,110,582,859	60	198	142	4	96	88	73.16	16.97	22.65
103R	59,082,573	45,680,423	77	21,400,344	36	21,400,344	36	42,549,460	72	1,401,658,537	64	250	175	4	96	87	77.23	15.05	17.93
103T	51,820,916	44,748,355	86	23,033,269	42	21,715,086	42	41,866,985	81	1,356,960,563	63	242	185	4	96	89	74.56	20.19	21.45
104T	77,515,517	60,461,136	78	32,349,822	44	28,111,314	36	55,997,232	72	1,773,233,712	61	316	211	4	96	86	79.79	17.97	25.18
105T	25,190,110	20,420,624	81	10,357,207	42	9,803,417	39	18,811,477	74	638,998,420	65	114	74	7	94	77	77.25	6.87	8.07
106T	51,189,793	44,314,217	87	22,475,169	44	21,839,148	43	40,762,726	80	1,369,651,787	64	244	179	4	96	90	74.86	14.56	18.06
107T	39,682,755	33,683,997	85	17,117,793	43	16,566,204	42	31,260,681	79	1,037,180,295	64	185	142	4	96	88	74.07	14.33	17.77
108T	42,234,378	35,511,103	84	17,896,872	42	17,614,231	42	33,133,619	78	1,092,509,471	64	195	150	4	96	88	74.22	17.86	22.72
109T	53,100,104	42,094,582	79	22,203,272	42	19,891,310	37	39,148,467	74	1,242,802,428	62	221	164	5	95	83	79.31	16.64	20.46
110R	52,616,213	43,896,488	83	22,818,015	43	21,078,473	40	41,040,242	78	1,422,098,134	68	253	188	4	96	88	76.67	18.59	22.9
110T	51,764,580	45,286,609	87	22,988,019	44	22,988,019	43	42,379,893	82	1,425,439,533	66	254	193	3	97	90	75.24	24.63	30.88
111R	52,422,404	46,588,991	89	22,964,002	44	23,624,989	45	43,375,026	83	1,340,551,168	60	239	189	4	96	88	77	26.97	35.65
111T	45,393,233	39,877,335	88	20,244,015	45	19,633,320	43	37,164,689	82	1,154,469,178	60	206	159	4	96	88	76	22.62	28.92
112T	62,783,376	54,140,810	86	26,617,933	42	27,522,877	42	50,361,671	80	1,611,296,822	62	288	231	3	97	91	74.48	22.34	29.76
113T	64,903,719	55,500,980	86	27,447,969	42	28,055,011	43	51,962,297	80	1,710,952,427	64	305	235	4	96	90	75.6	19.4	25.27
114T	39,147,241	31,615,222	82	15,114,222	39	15,114,222	39	23,559,556	74	735,719,796	68	179	134	10	90	81	78.11	6.15	7.14
115T	37,275,345	31,373,822	84	16,041,053	43	15,332,769	41	29,068,763	78	931,754,217	62	166	118	6	94	81	78.83	13.02	16.16
119T	31,834,040	26,891,837	84	13,336,299	42	13,555,538	43	25,018,858	79	769,088,595	60	137	94	5	95	81	76.45	10.34	13.03
124T	54,265,469	49,011,250	90	24,600,751	45	24,410,499	45	45,532,852	84	1,328,892,988	57	237	167	5	95	84	78.83	19.45	24.48
125T	51,172,304	45,131,163	88	22,543,789	44	22,587,374	44	41,927,270	82	1,217,797,322	56	217	150	4	96	86	76.19	18.62	23.22
126T	102,034,241	91,383,476	90	45,617,033	45	45,766,443	45	85,219,650	84	2,204,109,454	50	393	276	4	96	87	79.9	25.2	32.53
127R	48,875,985	43,162,645	88	21,725,360	44	21,437,285	44	40,294,932	83	1,270,640,877	61	226	157	5	95	83	79.7	22.23	28.84
127T	62,340,553	54,970,683	88	28,063,229	45	28,063,229	45	51,660,148	83	1,626,087,695	62	290	200	4	96	86	79	26.23	33.59
128R	43,625,055	38,764,117	89	19,633,785	45	19,633,785	44	35,150,332	83	1,244,537,542	67	222	155	5	95	84	78	14.95	19.13
128T	44,180,719	38,660,990	88	18,735,010	42	18,735,010	42	35,867,358	81	1,123,486,617	61	200	145	4	96	85	77.5	20.84	28.22
129R	42,949,888	38,614,045	87	19,276,429	46	19,276,429	45	36,151,403	84	1,042,152,761	56	186	140	5	96	86	76.5	13.87	16.25
129T	54,714,636	49,236,227	90	25,054,537	46	24,181,690	44	46,387,276	85	1,329,426,560	59	248	158	7	94	93	81.17	16	20.3
150R	44,810,339	35,630,810	80	18,727,311	42	16,903,499	38	33,166,694	74	1,055,377,184	62	188	142	4	96	88	74.52	20.41	24.61
150T	30,865,107	26,170,567	85	13,696,778	44	12,473,789	40	24,413,598	74	803,394,574	64	143	102	4	96	84	73.79	9.86	11.97
151R	60,716,651	49,452,079	81	25,139,753	41	24,312,326	40	46,029,496	76	1,516,344,896	64	270	200	4	96	86	77.96	25.92	32.73
151T	89,920,766	72,984,333	81	36,898,550	41	36,085,783	40	68,055,051	76	2,161,723,434	62	385	284	4	96	89	77.69	28.77	37.13
155R	38,369,107	31,196,862	81	16,650,641	43	14,546,255	38	29,171,550	76	962,757,194	64	171	113	5	95	80	79.2	11.15	13.37
155T	77,793,427	63,315,653	81	30,737,680	40	30,737,680	40	59,520,827	77	2,061,135,335	68	367	253	4	96	89	75.9	28.24	34.99
503T	39,570,529	32,166,961	81	17,498,537	41	14,668,424	37	30,213,985	76	913,012,379	59	163	120	5	95	80	79.47	29.62	36
504T	37,446,292	31,208,807	83	16,433,831	44	14,774,976	39	29,282,003	78	880,679,233	59	157	122	6	94	79	81.44	29.69	37.86
505T	31,531,085	26,105,588	83	13,242,755	42	12,763,833	40	23,559,556	72	725,163,755	58	94	69	7	94	81	75.4	24.3	30.42
506T	18,319,626	15,181,146	83	7,996,670	43	7,184,476	39	14,150,992	77	411,913,535	57	73	44	5	95	74	73.45	16.52	19.15
507T	48,888,088	44,316,864	91	23,332,074	48	20,984,790	43	41,487,492	85	1,254,927,975	59	223	183	5	95	83	80.53	31.06	38.87
508T	50,441,691	45,260,349	90	23,772,344	47	21,488,005	43	42,551,421	84	1,285,269,235	59	229	175	5	95	82	8		

553T	68,505,880	58,897,265	86	29,538,445	43	29,358,820	43	55,147,816	81	1,486,049,915	53	265	209	5	95	83	81.4	35.62	47.72
556T	49,594,535	43,245,421	87	22,656,993	46	20,588,828	42	40,381,008	81	1,233,126,361	60	220	174	5	95	84	79.82	33.87	42.28
557T	31,868,499	26,405,958	83	13,875,982	44	12,529,976	39	24,746,649	78	756,136,242	60	135	68	4	96	77	77.62	22.05	25.96
558T	57,509,503	49,206,069	86	25,353,948	44	23,852,121	41	45,781,158	80	1,335,345,072	57	238	176	5	95	84	78.85	34.28	44.06
561T	27,505,605	22,826,207	83	12,013,589	44	10,812,618	39	21,262,612	77	651,805,388	60	116	81	4	96	82	74.63	22.1	26.26
563T	50,523,860	42,922,852	85	22,479,531	44	20,443,321	40	40,278,695	80	1,213,914,767	59	216	156	4	96	86	76.81	31.84	39.71
564T	48,342,441	42,051,803	87	22,358,145	46	19,693,658	41	39,271,639	81	1,128,197,936	56	201	162	5	95	83	80.23	30.67	37.7
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