

**Table S1.** Assembly with different coverage levels of short reads.

Assemblies were done with Velvet 0.7.56 with  $k=25$ . N50, maximum contig length (Nmax), the number of gaps that Velvet introduced within contigs and the total length of gaps within the assembly are given for different combinations of 454 coverage, coverage from one lane of Solexa single-end reads, coverage from a 300 bp Solexa paired-end library, and coverage from a 500 bp Solexa paired-end library. Addition of 454 reads has the most drastic effect on the number and length of gaps whereas addition of paired-end reads influences mostly N50 and Nmax (see Figure S2 for a graphical overview).

solexa se cov.	solexa pe 300 bp library cov.	solexa pe 500 bp library cov.	454 cov.	454 pre-assembly included	N50 (kb)	Nmax (kb)	no. of gaps	total length of gaps (kb)	total length of assembly (Mb)	no. of contigs > 100 bp
0	0	9	0	no	1	16	1999	630	1.1	2780
0	0	9	3	no	8	57	26866	4438	37.2	10038
0	0	9	6	no	33	148	12191	1791	38.9	5098
0	0	9	10	no	50	424	6311	877	39.1	5276
0	0	9	10	yes	72	409	4259	982	39.9	4810
0	0	18	0	no	1	24	51816	16593	24.5	33066
0	0	18	3	no	31	263	31073	4618	39.4	4184
0	0	18	6	no	81	394	10321	1401	39.0	3758
0	0	18	10	no	77	528	5464	707	39.1	4773
0	0	18	10	yes	121	688	3217	873	40.0	4540
0	0	27	0	no	3	47	147965	32801	50.8	30621
0	0	27	3	no	65	288	31931	3879	39.8	2995
0	0	27	6	no	92	526	9416	1183	39.1	3559
0	0	27	10	no	95	521	5070	6004	39.2	4141
0	0	27	10	yes	138	999	2781	742	40.0	4068
0	25	0	0	no	1	27	126427	21128	38.2	43909
0	25	0	3	no	8	51	24394	3878	39.7	10226
0	25	0	6	no	20	138	7163	1012	38.8	6144
0	25	0	10	no	25	187	3712	419	38.9	6179
0	25	0	10	yes	52	363	2048	648	39.7	4890
0	25	9	0	no	10	72	199453	25009	51.2	12071
0	25	9	3	no	53	356	27793	3724	40.5	3141
0	25	9	6	no	79	315	7713	998	39.1	3692
0	25	9	10	no	72	494	4247	481	39.1	4360
0	25	9	10	yes	112	995	2041	515	39.9	4218
0	25	18	0	no	39	177	183022	18024	49.5	3637
0	25	18	3	no	101	428	22893	2678	40.0	2589
0	25	18	6	no	98	395	6587	786	39.1	3542
0	25	18	10	no	90	432	4052	459	39.3	4219
0	25	18	10	yes	140	994	1759	356	39.7	4089
0	25	27	0	no	71	322	149008	13193	47.2	1942
0	25	27	3	no	110	529	18254	2002	39.6	2451
0	25	27	6	no	100	519	5912	681	39.1	3411
0	25	27	10	no	85	516	4143	448	39.3	4036

0	25	27	10	yes	143	1060	1669	269	39.7	3975
0	50	0	0	no	16	96	151760	21276	54.9	7121
0	50	0	3	no	37	227	17721	2504	40.0	4070
0	50	0	6	no	42	257	4963	590	38.9	4882
0	50	0	10	no	32	189	3179	275	39.0	5698
0	50	0	10	yes	78	597	1164	211	39.6	4579
0	50	9	0	no	60	303	113488	13777	49.1	2529
0	50	9	3	no	94	407	13913	1806	39.6	2734
0	50	9	6	no	88	468	4781	585	39.1	3804
0	50	9	10	no	73	554	3530	369	39.3	4425
0	50	9	10	yes	117	727	1226	199	39.8	4296
0	50	18	0	no	87	563	81858	9052	45.4	1837
0	50	18	3	no	115	456	10740	1331	39.3	2628
0	50	18	6	no	98	565	4361	512	39.1	3657
0	50	18	10	no	90	417	3697	409	39.4	4244
0	50	18	10	yes	137	717	1251	211	39.8	4218
0	50	27	0	no	106	427	60715	6502	13.4	1692
0	50	27	3	no	120	568	8697	1047	39.2	2740
0	50	27	6	no	103	438	4265	509	39.3	3264
0	50	27	10	no	97	495	3860	440	39.6	4164
0	50	27	10	yes	137	992	1401	242	39.9	4128
9	0	9	0	no	1	19	32527	10586	19.8	46987
9	0	9	3	no	15	76	27046	3993	38.9	7094
9	0	9	6	no	45	251	9790	1381	38.9	4558
9	0	9	10	no	59	423	5233	664	39.0	4709
9	0	9	10	yes	88	492	3016	901	40.0	4399
9	0	18	0	no	3	24	135286	27896	48.4	36279
9	0	18	3	no	57	274	29463	3581	39.7	3325
9	0	18	6	no	86	511	8626	1168	39.1	3848
9	0	18	10	no	78	554	4669	602	39.3	5097
9	0	18	10	yes	137	713	2431	715	40.0	4757
9	0	27	0	no	124	917	180533	25537	50.9	13560
9	0	27	3	no	93	362	26715	2788	39.7	2477
9	0	27	6	no	96	782	7871	890	39.1	3445
9	0	27	10	no	89	761	4623	521	39.2	4154
9	0	27	10	yes	141	995	2192	628	40.0	4043
9	25	0	0	no	3	22	164032	24754	51.8	30025
9	25	0	3	no	13	67	22297	3358	40.1	7271
9	25	0	6	no	26	169	6032	788	38.8	5605
9	25	0	10	no	27	199	3181	331	38.9	6080
9	25	0	10	yes	60	326	1538	429	39.7	4768
9	25	9	0	no	22	120	164359	19256	51.0	6121
9	25	9	3	no	70	351	21012	2691	40.0	2891
9	25	9	6	no	83	353	6124	759	39.0	3713
9	25	9	10	no	68	443	3883	448	39.2	4407
9	25	9	10	yes	117	993	1581	387	39.8	4258

9	25	18	0	no	62	297	131092	12927	47.2	2529
9	25	18	3	no	117	500	16351	1900	39.5	2643
9	25	18	6	no	105	456	5387	638	39.1	3625
9	25	18	10	no	92	598	3656	400	39.3	4277
9	25	18	10	yes	141	1023	1453	280	39.7	4140
9	25	27	0	no	97	418	101701	9393	45.0	1703
9	25	27	3	no	118	439	13041	1451	39.3	2596
9	25	27	6	no	104	593	4989	588	39.1	3514
9	25	27	10	no	87	611	3785	443	39.5	4148
9	25	27	10	yes	143	993	1480	253	39.8	4058
9	50	0	0	no	24	131	105216	14773	50.2	4875
9	50	0	3	no	44	223	12500	1746	39.4	3885
9	50	0	6	no	44	223	3954	456	38.9	4908
9	50	0	10	no	33	238	2793	235	39.0	5788
9	50	0	10	yes	86	597	937	198	39.6	4642
9	50	9	0	no	75	350	77601	9599	45.9	2164
9	50	9	3	no	95	392	10128	1317	39.3	2831
9	50	9	6	no	86	494	4085	469	39.1	3863
9	50	9	10	no	75	418	3241	342	39.4	4506
9	50	9	10	yes	121	1373	1061	180	39.7	4363
9	50	18	0	no	102	381	56525	6457	43.3	1748
9	50	18	3	no	109	403	8243	1008	39.1	2826
9	50	18	6	no	99	567	3989	451	39.2	3752
9	50	18	10	no	88	676	3469	394	39.5	4327
9	50	18	10	yes	137	803	1115	194	39.8	4290
9	50	27	0	no	123	372	42506	4712	41.9	1600
9	50	27	3	no	108	545	6964	825	39.1	2868
9	50	27	6	no	105	457	3915	464	39.3	3693
9	50	27	10	no	97	631	3778	452	39.7	4211
9	50	27	10	yes	140	992	1347	233	40.0	4184