

Table S1 Quality of sequencing library

Sample	Raw reads	High-quality reads		Unique tags	Tags depth
		Number	Percent/%		
BDH01	6564537	5997121	91.36	249749	17.18
BDH02	6564537	6016284	91.65	254712	16.79
BDH04	6564537	5964111	90.85	243039	17.98
BDH05	6564537	5871399	89.44	261658	16.17
BDH06	6564537	5897986	89.85	268475	16.13
BDH07	7186968	6555501	91.21	261937	18.2
BDH08	7186968	6582546	91.59	269882	17.72
BDH09	7186968	6604673	91.90	248565	19.63
BDH10	7186968	6542461	91.03	267027	18.03
BDH11	7186968	6423098	89.37	259054	17.68
BDH12	6722008	6332287	94.20	243090	19.11
BDH13	6722008	6253651	93.03	262477	17.44
BDH14	6722008	6280010	93.42	234227	19.83
BDH15	6722008	6258362	93.10	258228	17.93
BDH16	6722008	6178548	91.92	255327	17.45
BDH17	7412657	6888797	92.93	258463	19.66
BDH18	7412657	6888481	92.93	264008	19.2
BDH19	7412657	6864011	92.60	234639	21.45
BDH20	7412657	6830112	92.14	259141	19.13
BDH21	7412657	6777711	91.43	264466	18.77
BDH22	6585533	6067241	92.13	251252	17.65
BDH23	6585533	6078889	92.31	257569	17.27
BDH24	6585533	6062194	92.05	231211	19.35
BDH25	6585533	6038404	91.69	254416	17.41
BDH26	6585533	6027572	91.53	249720	17.38
BDH27	5896558	5396580	91.52	245477	16.12
BDH28	5896558	5488711	93.08	243841	16.18
BDH29	5896558	5452882	92.48	220109	17.86
BDH30	5896558	5420629	91.93	243829	16.19
CDYS04	6313166	5736876	90.87	264565	16.04
CDYS07	7394421	6574526	88.91	212849	10.39
CDYS19	6973919	5261310	75.44	254479	14.95
CDYS21	6453657	6096782	94.47	258064	17.56
CDYS22	6453657	6077770	94.18	263853	17.01
CDYS23	6453657	6101867	94.55	221506	14.92
CDYS25	6453657	6024068	93.34	267206	16.57
CDYS26	7328326	6790770	92.66	267508	18.81
CDYS27	7328326	6794746	92.72	270373	18.5
CDYS28	7328326	6775437	92.46	251210	20.01
CDYS29	7328326	6734049	91.89	271299	18.25

CDYS30	7328326	6663486	90.93	198301	10.7
CDYZ01	6163296	5589663	90.69	259903	15.92
CDYZ02	6163296	5759908	93.45	261532	16.11
CDYZ03	6163296	5746438	93.24	241764	17.44
CDYZ04	6163296	5710141	92.65	263878	15.95
CDYZ05	6163296	5690270	92.33	266564	15.66
CDYZ06	5626965	5172047	91.92	257128	14.82
CDYZ07	5626965	5281876	93.87	254065	15.11
CDYZ08	5626965	5284474	93.91	238677	16.25
CDYZ09	5626965	5257650	93.44	259763	14.66
CDYZ10	5626965	5169638	91.87	261807	14.47
CDYZ11	6128768	5710561	93.18	254655	16.47
CDYZ12	6128768	5709849	93.16	262678	15.99
CDYZ13	6128768	5709079	93.15	243564	17.25
CDYZ14	6128768	5707546	93.13	259221	16.11
CDYZ15	6128768	5650861	92.20	264303	15.71
CDYZ16	6573178	6055426	92.12	261693	17.11
CDYZ17	6573178	6073948	92.41	267583	16.62
CDYZ18	6573178	6033402	91.79	248757	17.97
CDYZ19	6573178	6021324	91.60	268276	16.45
CDYZ20	6573178	6003549	91.33	265506	16.64
CDYZ21	6956283	5961335	85.70	268818	16.28
CDYZ22	6956283	6429142	92.42	271032	17.41
CDYZ23	6956283	6418728	92.27	256568	18.55
CDYZ24	6956283	6399413	91.99	274376	17.26
CDYZ25	6956283	6202270	89.16	277492	16.51
CDYZ26	8000201	7457606	93.22	271276	20.36
CDYZ27	8000201	7481994	93.52	277007	19.92
CDYZ28	8000201	7434023	92.92	262624	21.07
CDYZ29	8000201	7406369	92.58	279934	19.65
CDYZ30	8000201	7323567	91.54	278773	19.44
LYG01	7159471	6490251	90.65	240597	19.15
LYG02	6275002	5748471	91.61	240899	16.9
LYG03	6275002	5779666	92.11	246419	16.42
LYG04	6275002	5797316	92.39	224447	18.92
LYG05	6275002	5671369	90.38	254440	16.21
LYG06	6275002	5677040	90.47	252226	15.97
LYG07	5755552	5191781	90.20	192808	15.95
LYG08	5755552	5213714	90.59	243250	15.3
LYG09	5755552	5135959	89.23	158027	22.4
LYG10	5755552	5142388	89.35	245615	15.04
LYG11	5755552	5129481	89.12	252631	14.74
LYG12	6089614	5587970	91.76	237088	16.68
LYG13	6089614	5584106	91.70	237879	16.06

LYG14	6089614	5561487	91.33	219280	18.16
LYG15	6089614	5572026	91.50	228008	17.42
LYG16	6089614	5504860	90.40	243458	16.14
LYG17	6396702	5932611	92.74	247155	17.43
LYG18	6396702	5962185	93.21	250130	16.82
LYG19	6396702	5931691	92.73	230488	18.77
LYG20	6396702	5910416	92.40	251698	17.13
LYG21	6396702	5931461	92.73	252310	17.12
LYG22	6422618	5899169	91.85	237586	17.85
LYG23	6422618	5921213	92.19	252589	16.89
LYG24	6422618	5885383	91.64	223886	19.07
LYG25	6422618	5868865	91.38	250464	17.17
LYG26	6422618	5833221	90.82	232774	17.53
LYG27	7435831	6692158	90.00	254220	19
LYG28	7435831	6668331	89.68	256769	18.7
LYG29	7435831	6746491	90.73	236341	21.12
LYG30	7435831	6701706	90.13	263303	18.59
QD01	7435831	6657197	89.53	263300	18.57
QD02	6676455	6152786	92.16	248702	18.02
QD03	6676455	6096878	91.32	253325	17.15
QD04	6676455	6108877	91.50	230681	19.38
QD05	6676455	6111940	91.54	256522	17.33
QD06	6676455	6084013	91.13	261629	17.09
QD07	7315240	6662135	91.07	244087	19.54
QD08	7315240	6712128	91.76	261910	18.72
QD09	7315240	6561419	89.70	235929	19.58
QD10	7315240	6664711	91.11	262058	18.78
QD11	7315240	6622093	90.52	266593	18.33
QD12	6446298	5922117	91.87	240529	17.87
QD13	6446298	5921447	91.86	253190	16.9
QD14	6446298	5907235	91.64	221410	19.03
QD15	6446298	5932024	92.02	245404	17.66
QD16	6446298	5821687	90.31	252839	16.65
QD17	6073183	5647421	92.99	213555	19.05
QD18	6073183	5626937	92.65	242455	16.69
QD19	6073183	5626883	92.65	216879	19.17
QD20	6073183	5623751	92.60	238628	17.15
QD21	6073183	5580157	91.88	243861	16.36
QD22	7800829	7168158	91.89	261377	20.29
QD23	13726709	9570668	69.72	276581	25.51
QD24	7800829	7154145	91.71	229952	22.86
QD25	7800829	7133905	91.45	259475	20.32
QD26	7800829	7078547	90.74	260607	19.81
QD27	8513473	7845776	92.16	262138	22.09

QD28	8513473	7814722	91.79	264597	21.67
QD29	14439353	10152196	70.31	250162	29.53
QD30	8513473	7774499	91.32	259332	21.97
WH01	5896558	5399809	91.58	240202	16.08
WH02	6166423	5451182	88.40	235440	16.4
WH03	6166423	5610014	90.98	240809	16.53
WH04	6166423	5570645	90.34	225469	18.17
WH05	6166423	5599804	90.81	247110	16.64
WH06	6166423	5527834	89.64	237019	16.53
WH07	6585984	6061755	92.04	248885	17.86
WH08	6585984	6084244	92.38	254578	17.52
WH09	6585984	6053018	91.91	226838	19.63
WH10	6585984	6041619	91.73	250295	17.65
WH11	6585984	6033863	91.62	254997	17.42
WH12	6203215	5687352	91.68	252266	16.63
WH13	6203215	5775583	93.11	249127	16.8
WH14	6203215	5721621	92.24	220879	18.62
WH15	6203215	5699680	91.88	244690	16.78
WH16	6203215	5677877	91.53	250979	16.38
WH17	6662086	6179064	92.75	249485	18.11
WH18	6662086	6175784	92.70	254854	17.53
WH19	6662086	6216994	93.32	235384	19.55
WH20	6662086	6211426	93.24	253020	18.08
WH21	6662086	6161496	92.49	246610	17.97
WH22	6462720	6043747	93.52	250441	17.69
WH23	6462720	6064868	93.84	256017	17.17
WH24	6462720	6033589	93.36	234094	18.98
WH25	6462720	6003190	92.89	255057	17.22
WH26	6462720	5990457	92.69	261556	16.73
WH27	7159471	6623906	92.52	254076	19.23
WH28	7159471	6631750	92.63	258868	18.63
WH29	7159471	6577059	91.87	234471	20.62
WH30	7159471	6592883	92.09	254787	18.76
YK01	7317480	6602983	90.24	243307	19.27
YK02	7317480	6572918	89.82	251748	18.55
YK03	7317480	6567592	89.75	239892	19.48
YK04	7317480	6491103	88.71	267321	17.51
YK05	7317480	6247964	85.38	265780	16.86
YK06	8070384	7427379	92.03	254855	21.12
YK07	8070384	7405662	91.76	249953	20.42
YK08	8070384	7338234	90.93	238816	22.12
YK09	8070384	7310830	90.59	258175	19.59
YK10	8070384	7237459	89.68	263385	19.29
YK11	7239452	6616615	91.40	237112	19.88

YK12	7239452	6546682	90.43	245549	17.87
YK13	7239452	6511903	89.95	236788	19.31
YK14	7239452	6517694	90.03	269016	17.46
YK15	7239452	6531140	90.22	266152	17.76
YK16	6485483	5800356	89.44	248081	16.65
YK17	6485483	5918928	91.26	258825	16.47
YK18	6485483	5842603	90.09	230940	17.35
YK19	6485483	5822930	89.78	239936	17.15
YK20	6485483	5786608	89.22	263761	15.84
YK21	6733728	6132177	91.07	234747	18.39
YK22	6733728	6136823	91.14	255925	16.96
YK23	6733728	6106907	90.69	217748	19.8
YK24	6733728	6021749	89.43	245222	17.55
YK25	6733728	6011754	89.28	231457	18.06
YK26	7435914	6675802	89.78	254072	18.92
YK27	7435914	6407616	86.17	254605	17.77
YK28	7435914	6666801	89.66	239034	20.05
YK29	7435914	6692481	90.00	244784	19.33
YK30	7435914	6633705	89.21	261536	18.32
Total	1304176496	1186018785	---	47677335	---
Mean	6828149	6209522	91.21	249620	17.90
