

Table S3 Detailed information of the genetic linkage map of the HJ-DH population constructed by the bi-filtering analysis method (Map B), comparative analysis with *B. rapa* and *B. oleracea*

<i>B. napus</i>			<i>B. rapa/B. oleracea</i>		
LG	Marker	Position	Homologous locus	Homologous collinear locus ^a	
BnA01	bnA1059	0	BrA01_284970_301 ^b	BrA01 ^c	284970
BnA01	bnA1060	0	BrA01_316954_302	BrA01	316954
BnA01	bnA5902	0.6	BrA01_344735_301	BrA01	344735
BnA01	bnA5487	2.6	BrA01_405988_295	BrA01	405988
BnA01	BGO001	4.3	BrA01_759441_243	BrA01	759441
BnA01	BEN334	4.3	BoC01_983676_247		
BnA01	bnA4875	5.7	BrA01_806580_171	BrA01	806580
BnA01	bnA5488	5.7	BrA01_855235_301	BrA01	855235
BnA01	bnA1065	6.5	BrA01_922051_301	BrA01	922051
BnA01	bnA5005	6.5	BrA01_974796_295	BrA01	974796
BnA01	bnA1067	6.5	BrA01_975490_301	BrA01	975490
BnA01	BEN9	7.6	BrA01_1040762_198	BrA01	1040762
BnA01	bnA1070	9.1	BrA01_1103533_255	BrA01	1103533
BnA01	bnA1073	11.1	BrA01_1291584_301	BrA01	1291584
BnA01	bnA1074	11.7	BrA01_1322683_301	BrA01	1322683
BnA01	bnA5432	11.7	BoC01_1878304_252		
BnA01	bnA1076	12.3	BrA01_1439859_301	BrA01	1439859
BnA01	bnA1093	12.3	BrA01_1459501_301	BrA01	1459501
BnA01	NIAB_SSR106	12.9	BrA01_1466151_286	BrA01	1466151
BnA01	bnA5906	15.8	BoC01_2488980_301		
BnA01	bnA1105	17.8	BrA01_1977120_301	BrA01	1977120
BnA01	bnA1106	17.8	BrA01_2067347_301	BrA01	2067347
BnA01	bnA1109	18.4	BrA01_2284682_297	BrA01	2284682
BnA01	bnA1112	18.7	BrA01_2359318_213	BrA01	2359318
BnA01	BEN10	19	BrA01_2500870_113	BrA01	2500870
BnA01	BGO108	19.6	BrA01_2567859_160	BrA01	2567859
BnA01	bnA1115	20.7	BrA01_2667541_301	BrA01	2667541
BnA01	bnA1116	20.7	BrA01_2694173_301	BrA01	2694173
BnA01	bnA1022	20.7	BoC04_18829093_301		
BnA01	bnA1117	20.7	BrA01_2862804_302	BrA01	2862804
BnA01	Ol10-D03A	21.6	BrA01_3282738_133	BrA01	3282738
BnA01	bnA1121	21.9	BrA01_3304097_297	BrA01	3304097
BnA01	bnA5499	21.9	BrA09_35709086_301		
BnA01	bnA0123	22.2	BrA01_3744574_303	BrA01	3744574
BnA01	bnA5325	22.2	BoC01_4854933_314		
BnA01	bnA1125	22.5	BrA01_3969016_301	BrA01	3969016
BnA01	bnA4825	22.5	BrA01_4027253_301	BrA01	4027253
BnA01	bnA3175	22.5	BoC01_5700363_302		
BnA01	bnA3176	22.5	BoC01_5910378_284		
BnA01	bnA5033	22.5	BrA01_4077993_301	BrA01	4077993
BnA01	bnA1129	22.5	BrA01_4246436_301	BrA01	4246436

BnA01	BEN2	22.8	BrA01_4276372_187	BrA01	4276372
BnA01	BnEMS1012	22.8	BrA01_4276389_211	BrA01	4276389
BnA01	bnal131	23.7	BrA01_4612731_282	BrA01	4612731
BnA01	bnas497	24.8	BrA01_5022756_301	BrA01	5022756
BnA01	bnal142	28.4	BrA01_5971798_301	BrA01	5971798
BnA01	bnal145	28.7	BrA01_6379546_301	BrA01	6379546
BnA01	bnal146	28.7	BrA01_6388281_309	BrA01	6388281
BnA01	bnal147	28.7	BrA01_6502314_301	BrA01	6502314
BnA01	bnas365	29	BrA01_6681885_301	BrA01	6681885
BnA01	BGR65	29.3	BrA01_6684759_104	BrA01	6684759
BnA01	bnal150	29.6	BrA01_6898141_301	BrA01	6898141
BnA01	bnas4633	31.6	BrA01_7399677_301	BrA01	7399677
BnA01	bnal154	31.6	BrA01_7473115_301	BrA01	7473115
BnA01	bnal155	31.6	BrA01_7486801_301	BrA01	7486801
BnA01	bnal156	31.6	BrA01_7530818_301	BrA01	7530818
BnA01	bnas269	31.6	BrA01_7554524_301	BrA01	7554524
BnA01	bnal157	31.6	BrA01_7721347_301	BrA01	7721347
BnA01	bnal159	31.9	BrA01_7855239_303	BrA01	7855239
BnA01	bnal160	31.9	BrA01_7991655_302	BrA01	7991655
BnA01	bnas0317	37.2	BrA01_8388907_301	BrA01	8388907
BnA01	bnas0318	37.2	BrA01_8395801_301	BrA01	8395801
BnA01	bnal168	41.8	BrA01_8514979_301	BrA01	8514979
BnA01	BnEMS57	45	BrA01_8639083_251	BrA01	8639083
BnA01	bnal181	46.5	BrA01_9203246_301	BrA01	9203246
BnA01	bnal174	51.8	BrA01_10000380_303	BrA01	10000380
BnA01	bnal880	55.1	BrA01_11302933_301	BrA01	11302933
BnA01	bnal202	57.8	BrA01_14804405_301	BrA01	14804405
BnA01	bnas5331	57.8	BrA01_14915561_301	BrA01	14915561
BnA01	Na12-C06	62.4			
BnA01	BGR6	66.3	BrA01_14939760_138	BrA01	14939760
BnA01	bnal205	66.9	BrA01_14960083_301	BrA01	14960083
BnA01	bnas4847	67.5	BrA01_16129488_301	BrA01	16129488
BnA01	bnal952	67.5	BrA01_16253613_301	BrA01	16253613
BnA01	bnal951	67.5	BrA01_16260435_301	BrA01	16260435
BnA01	bnal949	67.5	BrA01_16433096_275	BrA01	16433096
BnA01	bnal948	67.5	BrA01_16472423_301	BrA01	16472423
BnA01	bnal947	67.5	BrScaffold004113_153_300		
BnA01	bnas381	67.5	BrA01_16945994_301	BrA01	16945994
BnA01	bnas604	67.5	BrA01_17112397_301	BrA01	17112397
BnA01	bnal938	67.5	BrA01_17296297_299	BrA01	17296297
BnA01	bnal216	69.2	BrA01_18097124_301	BrA01	18097124
BnA01	bnas508	69.2	BoC01_25604906_301		
BnA01	bnal215	69.2	BrA01_18102853_269	BrA01	18102853
BnA01	BGR84	70.6	BrA01_19723537_119	BrA01	19723537
BnA01	bnas4621	70.9			
BnA01	bnal234	71.2	BrA01_20436893_250	BrA01	20436893
BnA01	bnal240	72.3	BrA01_21533280_301	BrA01	21533280

BnA01	bnA1227	72.9	BrA01_21715312_301	BrA01	21715312
BnA01	bnA1226	72.9	BrA01_21726916_301	BrA01	21726916
BnA01	bnA5240	73.8	BrA01_22141137_301	BrA01	22141137
BnA01	bnA1242	73.8	BrA01_22680380_255	BrA01	22680380
BnA01	bnA2684	74.1	BrA01_23024808_206	BrA01	23024808
BnA01	bnA5050	74.1	BrA01_23024808_206	BrA01	23024808
BnA01	bnA1244	74.1	BrA01_23159955_209	BrA01	23159955
BnA01	bnA5184	74.1	BrA01_23169456_302	BrA01	23169456
BnA01	bnA1246	74.1	BrA01_23390600_301	BrA01	23390600
BnA01	bnA1250	74.1	BrA01_23571784_301	BrA01	23571784
BnA01	BEN68	74.7	BrA01_23659029_106	BrA01	23659029
BnA01	bnA3349	75.3	BoC01_32601699_301		
BnA01	bnA5513	75.3	BrA01_23718576_301	BrA01	23718576
BnA01	BnGMS87	75.9	BrA01_23784674_221	BrA01	23784674
BnA01	bnA3358	76.2	BoC01_33124503_303		
BnA01	bnA1260	76.5	BrA01_24487702_301	BrA01	24487702
BnA01	bnA5255	76.5	BrA03_2569659_301		
BnA01	bnA4831	77.9	BrA01_24694541_172	BrA01	24694541
BnA01	bnA1269	77.9	BoC01_35362787_314		
BnA01	bnA0776	77.9	BoC01_35286677_301		
BnA01	bnA1277	78.5	BrA01_26384627_301	BrA01	26384627
BnA01	bnA3367	78.5	BoC01_36821459_254		
BnA01	bnA0344	78.5	BrA01_26442983_301	BrA01	26442983
BnA01	bnA1280	78.5	BrA01_26605007_302	BrA01	26605007
BnA01	bnA1281	78.5	BrA01_26622397_301	BrA01	26622397
BnA01	bnA1293	78.5	BrA01_27159148_301	BrA01	27159148
BnA01	bnA1295	78.5	BrA01_27389556_298	BrA01	27389556
BnA01	bnA5656	78.5	BrScaffold000164_241494_301		
BnA01	bnA1287	79.1	BrA01_27855099_301	BrA01	27855099
BnA01	BEN32A	83	BrA01_27859602_165	BrA01	27859602
BnA01	bnA0962	88.3	BoScaffold000425_184083_301		
BnA01	bnA0893	88.3	BoScaffold000425_84667_264		
BnA01	bnA0963	88.3	BoScaffold000425_184083_301		
BnA01	bnA2273	88.9	BrA01_28153164_301	BrA01	28153164
BnA01	bnA0300	88.9	BrScaffold000191_156554_301		
BnA01	bnA2272	88.9	BrA01_28168240_301	BrA01	28168240
BnA01	Na12-H02	90	BrA01_28229113_223	BrA01	28229113
BnA01	BRAS074B	90.6	BrA01_28424481_120	BrA01	28424481
BnA01	bnA5274	112.7	BrA02_3965136_301		
BnA01	bnA4804	128.8	BrA01_4737322_301	BrA01	4737322
BnA02	BoGMS795	0			
BnA02	OI11-H09A	0.6	BrA02_1510618_161	BrA02	1510618
BnA02	sR12095	0.6	BrA02_1598382_324	BrA02	1598382
BnA02	BEN406	11.7	BoC02_5333538_128		
BnA02	bnA4819	15.3	BoScaffold000328_209205_301		
BnA02	bnA5528	15.6	BrA02_4103904_301	BrA02	4103904
BnA02	bnA1349	15.6	BrA02_4120287_301	BrA02	4120287

BnA02	bna3673	15.6	BoC08_4067834_301		
BnA02	bna1351	15.6	BrA02_4180732_301	BrA02	4180732
BnA02	bna1971	16.8	BrA02_6252346_301	BrA02	6252346
BnA02	bna1367	17.4	BrA02_6466142_299	BrA02	6466142
BnA02	sN3761B	18.6	BrA02_6754912_171	BrA02	6754912
BnA02	bna1371	18.9	BrA02_6766467_301	BrA02	6766467
BnA02	bna4833	19.5	BrA02_7105284_302	BrA02	7105284
BnA02	sR6293	19.8	BrA02_7173113_124	BrA02	7173113
BnA02	bna5910	20.4	BrA02_7275448_301	BrA02	7275448
BnA02	bna3412	21.5	BrA02_7637663_301	BrA02	7637663
BnA02	bna5072	21.6	BrA02_7750536_301	BrA02	7750536
BnA02	bna1379	21.7	BrA02_7756158_301	BrA02	7756158
BnA02	bna1382	21.7	BrA02_7878079_301	BrA02	7878079
BnA02	bna5119	21.7	BrA02_7881877_301	BrA02	7881877
BnA02	bna1387	22	BrA02_8179342_301	BrA02	8179342
BnA02	bna5538	22.5	BrA02_8447213_285	BrA02	8447213
BnA02	bna1393	22.5	BrA02_8625702_301	BrA02	8625702
BnA02	bna1390	22.5	BoC06_25238316_301		
BnA02	bna0125	22.5	BrA02_8738403_301	BrA02	8738403
BnA02	bna1391	22.5	BrScaffold000318_1244_301		
BnA02	bna5442	22.8	BrA02_8884562_301	BrA02	8884562
BnA02	bna1398	22.8	BrA02_8949807_301	BrA02	8949807
BnA02	bna1401	22.8	BrA02_9281581_303	BrA02	9281581
BnA02	bna3513	23.1	BoScaffold000001_P2_469158_301		
BnA02	bna1698	24.3	BrA02_9421963_300	BrA02	9421963
BnA02	bna4638	24.3	BrA02_9645918_301	BrA02	9645918
BnA02	bna1441	26.5	BrA02_10325878_301	BrA02	10325878
BnA02	BEN281B	27.4	BrA02_10444068_202	BrA02	10444068
BnA02	bna2864	28	BoC01_19115033_293		
BnA02	bna0362	28.3	BrA02_10956748_301	BrA02	10956748
BnA02	bna1447	28.6	BrA02_11015035_301	BrA02	11015035
BnA02	bna1445	29.2	BrA02_11183543_301	BrA02	11183543
BnA02	bna1404	29.5	BrA02_11454601_301	BrA02	11454601
BnA02	bna1406	29.5	BrA02_11666536_303	BrA02	11666536
BnA02	bna1407	29.5	BrA02_11750590_301	BrA02	11750590
BnA02	bna5073	30.9	BrA02_12314392_301	BrA02	12314392
BnA02	bna5852	30.9	BrA02_12589154_301	BrA02	12589154
BnA02	bna1418	31.5	BrA02_12688756_301	BrA02	12688756
BnA02	bna1420	31.5	BrA02_12756742_296	BrA02	12756742
BnA02	bna1424	33.1	BrA02_13556242_301	BrA02	13556242
BnA02	bna0786	33.1	BoC02_18798720_286		
BnA02	BGR87	33.7	BrA02_14212023_120	BrA02	14212023
BnA02	bna3297	51.7	BoC07_36458580_302	BoC07	36458580
BnA02	bna5839	51.8	BoC07_36544565_301	BoC07	36544565
BnA02	bna3294	51.9	BoC07_36545063_301	BoC07	36545063
BnA02	bna3292	52	BoC07_36597360_301	BoC07	36597360
BnA02	bna5838	52.1	BoC07_36658059_301	BoC07	36658059

BnA02	bnA3291	52.2	BoC07_36664505_301	BoC07	36664505
BnA02	bnA3290	52.3	BoC07_36672987_301	BoC07	36672987
BnA02	bnA3289	52.4	BoC07_36714679_301	BoC07	36714679
BnA02	bnA5237	52.5	BoC07_36755053_277	BoC07	36755053
BnA02	bnA3287	52.5	BoC07_36847163_301	BoC07	36847163
BnA02	bnA4881	52.5	BoC07_36869769_222	BoC07	36869769
BnA02	bnA3286	52.5	BoC07_36909176_301	BoC07	36909176
BnA02	bnA3282	52.5	BoC07_37335580_301	BoC07	37335580
BnA02	bnA3281	52.5	BoC07_37417143_299	BoC07	37417143
BnA02	bnA5837	52.5	BoC07_37452969_301	BoC07	37452969
BnA02	bnA3280	52.5	BoC07_37454319_301	BoC07	37454319
BnA02	bnA3279	52.5	BoC07_37488062_301	BoC07	37488062
BnA02	bnA3277	52.5	BoC07_37555131_301	BoC07	37555131
BnA02	bnA0269	53.6	BoScaffold000013_P2_1538530_301		
BnA02	bnA0870	53.6	BoScaffold000013_P2_1854300_287		
BnA02	bnA4751	53.9	BoScaffold000180_336494_302		
BnA02	bnA0265	53.9	BoScaffold000013_P2_2445372_302		
BnA02	bnA0267	53.9	BoScaffold000013_P2_2007823_301		
BnA02	BGR52	55.3	BrA02_17526120_144		
BnA02	sR10417	55.3	BrA02_17125071_227		
BnA02	bnA4720	55.6	BoC02_21299338_301	BoC02	21299338
BnA02	bnA3533	56.7	BoC05_9768588_287		
BnA02	bnA3531	56.7	BoC05_7783846_301		
BnA02	bnA3528	56.7	BoC02_22655560_300	BoC02	22655560
BnA02	bnA3529	56.7	BrA10_89244_100		
BnA02	bnA5824	57.8	BoC01_11317620_301		
BnA02	bnA3255	58.1	BoC02_23357144_301	BoC02	23357144
BnA02	bnA3257	58.4	BoC02_23381964_301	BoC02	23381964
BnA02	bnA5840	58.4	BoC06_1845858_301		
BnA02	bnA3263	58.4	BrA05_8520929_145		
BnA02	bnA3256	58.4	BoC03_32323085_302		
BnA02	bnA3284	58.7	BoC09_27155188_301		
BnA02	bnA0858	59	BoScaffold000393_56192_294		
BnA02	bnA3298	59.3	BoC06_1908498_229		
BnA02	bnA1031	59.3	BoScaffold000512_57088_141		
BnA02	bnA3444	59.6	BoC02_25162106_301	BoC02	25162106
BnA02	bnA3266	59.9	BoScaffold000335_300181_301		
BnA02	bnA3272	59.9	BoScaffold000335_100012_301		
BnA02	bnA3438	59.9	BoC02_25050175_278	BoC02	25050175
BnA02	bnA3461	59.9	BoC06_14216429_301		
BnA02	bnA5859	59.9	BoScaffold000003_P1_338520_297		
BnA02	bnA3453	60.2	BoC07_25305432_301		
BnA02	bnA0612	60.5	BoScaffold000233_755201_170		
BnA02	bnA3258	60.5	BoC02_23426511_301	BoC02	23426511
BnA02	bnA3269	60.5	BoScaffold000335_230394_301		
BnA02	bnA4130	60.6	BoC08_9033619_300		
BnA02	bnA5858	60.7	BrA03_21378186_130		

BnA02	bnA3470	60.7	BoC03_41885114_301		
BnA02	bnA3443	60.7	BoC02_25146228_302	BoC02	25146228
BnA02	bnA4704	60.7	BoScaffold000419_82799_291		
BnA02	bnA3492	60.7	BoC08_13180288_301		
BnA02	bnA3449	60.8	BoC02_25222313_294	BoC02	25222313
BnA02	bnA3446	60.9	BoC02_25244717_155	BoC02	25244717
BnA02	bnA3450	60.9	BoC02_25309091_301	BoC02	25309091
BnA02	bnA5969	60.9	BoC02_25568930_301	BoC02	25568930
BnA02	bnA3451	60.9	BoC02_25351109_301	BoC02	25351109
BnA02	bnA3452	60.9	BoC02_25442729_300	BoC02	25442729
BnA02	bnA3456	60.9	BoC02_25719601_239	BoC02	25719601
BnA02	bnA3457	60.9	BoC02_25741664_301	BoC02	25741664
BnA02	bnA3460	60.9	BoC02_25833179_301	BoC02	25833179
BnA02	bnA3462	60.9	BoC02_25869796_301	BoC02	25869796
BnA02	bnA3463	61.2	BoC02_25884580_301	BoC02	25884580
BnA02	bnA3467	61.2	BoC02_26044159_301	BoC02	26044159
BnA02	bnA3468	61.2	BoC02_26067961_300	BoC02	26067961
BnA02	bnA3267	61.2	BoScaffold000335_309595_223		
BnA02	bnA3474	61.2	BoC02_26265513_301	BoC02	26265513
BnA02	bnA3478	61.5	BoC02_26377496_250	BoC02	26377496
BnA02	bnA3479	61.8	BoC02_26439434_295	BoC02	26439434
BnA02	bnA3484	61.8	BoC02_26666221_258	BoC02	26666221
BnA02	bnA3485	61.8	BoC02_26694404_299	BoC02	26694404
BnA02	bnA3436	61.8	BoScaffold000031_P1_149878_301		
BnA02	bnA3487	61.8	BoC02_26757922_301	BoC02	26757922
BnA02	bnA3490	61.8	BoC02_26900603_297	BoC02	26900603
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BnA10	bnA1814	8.5	BrA10_6199138_301	BrA10	6199138
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BnA10	bnA5770	13.1	BrA10_7906431_301	BrA10	7906431
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BnA10	bnA5314	13.1	BrA10_8315472_301	BrA10	8315472
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BnC03	bna3697	67.3	BoC03_17189721_301	BoC03	17189721
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BnC03	bna3728	79.8	BoScaffold000040_77369_301		
BnC03	bna3726	79.8	BoScaffold000040_222077_301		
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BnC05	bna2082	140.2	BrA05_14435311_301	BrA05	14435311
BnC05	bna2083	140.2	BrA05_14444029_301	BrA05	14444029
BnC05	bna2085	140.2	BrA05_14595356_301	BrA05	14595356
BnC05	bna5012	140.2	BrA05_14740842_277	BrA05	14740842
BnC05	bna2087	140.2	BrA05_14742565_301	BrA05	14742565
BnC05	bna2091	140.2	BrA05_15013435_301	BrA05	15013435
BnC05	bna5625	140.2	BrA05_15086181_301	BrA05	15086181
BnC05	bna2066	140.2	BrA05_15356777_304	BrA05	15356777
BnC05	bna2057	140.5	BrA05_16835720_305	BrA05	16835720
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BnC05	bna4801	141.1	BrA05_17757971_229	BrA05	17757971
BnC05	bna2375	141.1	BrA05_17832691_301	BrA05	17832691
BnC05	bna5017	141.1	BrA05_17913610_301	BrA05	17913610
BnC05	bna5619	141.4	BrA05_18458288_258	BrA05	18458288
BnC05	bna4729	141.4	BoScaffold000509_10901_301		
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BnC05	bna4798	141.7	BoC05_23892687_300		
BnC05	bna0769	141.7	BoC05_23817122_301		
BnC05	bna2048	141.7	BrA05_18778891_301	BrA05	18778891
BnC05	bna1162	142.3	BoScaffold000106_777496_318		
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BnC05	bna5617	144.6	BrA05_21102199_301	BrA05	21102199
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BnC05	bna2043	144.6	BrA05_21481144_301	BrA05	21481144
BnC05	bna2042	144.9	BrA05_21631356_301	BrA05	21631356
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BnC06	bnA4793	24.9	BoC07_7504465_225	BoC07	7504465
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BnC06	BEN327	26.7	BoC07_8457556_255	BoC07	8457556
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BnC06	bna0015	36	BrA07_16040715_301	BrA07	16040715
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BnC06	bna0650	42.6	BoC07_33598518_273	BoC07	33598518
BnC06	bna2529	42.6	BoC07_32751398_304	BoC07	32751398
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BnC08	BGO185	57	BoC08_33413955_175	BoC08	33413955
BnC08	bnA4466	57.6	BoC08_33414439_301	BoC08	33414439
BnC08	bnA5790	58.2	BoC08_33626856_301	BoC08	33626856
BnC08	bnA4470	58.2	BoC08_33627426_309	BoC08	33627426
BnC08	bnA0149	58.2	BoC08_33685221_301	BoC08	33685221
BnC08	bnA4737	59.9	BoC08_34090345_302	BoC08	34090345
BnC08	bnA5319	59.9	BoC08_34149820_297	BoC08	34149820
BnC08	bnA4478	59.9	BoC08_34223188_172	BoC08	34223188
BnC08	bnA4479	59.9	BoC08_34299811_301	BoC08	34299811
BnC08	bnA4480	59.9	BoC08_34330172_271	BoC08	34330172
BnC08	bnA4483	60.5	BoC08_34447669_301	BoC08	34447669
BnC08	bnA4484	60.5	BoC08_34490256_301	BoC08	34490256
BnC08	bnA5795	60.8	BoC08_34507781_302	BoC08	34507781
BnC08	bnA4485	60.8	BoC08_34515885_301	BoC08	34515885

BnC08	bn4486	60.8	BoC08_34516979_301	BoC08	34516979
BnC08	BGO183	64.7	BoC08_34682365_236	BoC08	34682365
BnC08	bn4488	68.6	BoC08_34885790_300	BoC08	34885790
BnC08	bn4490	68.6	BoC08_34974685_301	BoC08	34974685
BnC08	bn4496	68.6	BoC08_35193805_301	BoC08	35193805
BnC08	bn4497	68.6	BoC08_35216428_299	BoC08	35216428
BnC08	bn4498	68.6	BoC08_35252325_276	BoC08	35252325
BnC08	bn4499	68.6	BoC08_35278607_303	BoC08	35278607
BnC08	BEN52	68.9	BoC08_35597022_161	BoC08	35597022
BnC08	bn40480	75.6	BoC08_36969549_301	BoC08	36969549
BnC08	BEN82	76	BoC08_37025192_150	BoC08	37025192
BnC08	bn45810	76.8	BoC08_38521325_301	BoC08	38521325
BnC08	bn42602	76.8	BrA09_21897067_311		
BnC08	bn4543	76.8	BoC08_38528116_301	BoC08	38528116
BnC08	bn4547	76.8	BoC08_38663751_301	BoC08	38663751
BnC08	bn4551	76.8	BoC08_38792031_300	BoC08	38792031
BnC08	bn45692	76.8	BrA09_21897067_311		
BnC08	bn4554	76.8	BoC08_38862591_301	BoC08	38862591
BnC08	bn40059	76.8	BoC08_38862591_301	BoC08	38862591
BnC08	bn45179	77.4	BoC08_38982814_301	BoC08	38982814
BnC08	CB10028	77.7	BoC08_39012255_177	BoC08	39012255
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BnC08	bn45813	79.4	BoC08_39218901_301	BoC08	39218901
BnC08	bn4558	79.4	BoC08_39223830_309	BoC08	39223830
BnC08	bn42785	79.7	BrA09_35647627_301		
BnC08	bn45480	79.7	BoScaffold000330_47398_301		
BnC08	bn45808	79.7	BoScaffold000330_198207_301		
BnC08	bn4538	79.7	BoC08_40291476_301	BoC08	40291476
BnC08	bn45807	79.7	BoC08_40306294_301	BoC08	40306294
BnC08	bn45720	79.7	BrA09_36111852_301		
BnC08	bn42782	79.7	BrA09_36016899_303		
BnC08	bn4537	79.7	BoC08_40327538_301	BoC08	40327538
BnC08	bn42783	79.7	BrA09_35751967_301		
BnC08	bn4540	79.7	BoScaffold000330_49205_301		
BnC08	bn4534	79.7	BoC08_40629883_301	BoC08	40629883
BnC08	bn4539	79.7	BoScaffold000330_354434_231		
BnC08	BnEMS860	81.1	BoC08_40829449_328	BoC08	40829449
BnC08	BEN316	83.7			
BnC08	BoGMS125	90.7	BoC08_40929085_506	BoC08	40929085
BnC08	BrGMS394	94.2	BrA09_35835741_166		
BnC08	BrGMS375C	95.7	BrA09_36262449_164		
BnC08	bn45806	96.3	BoC08_40937947_301	BoC08	40937947
BnC08	bn4531	96.3	BoC08_40937947_301	BoC08	40937947
BnC08	bn45428	98	BoC08_41331400_301	BoC08	41331400
BnC08	bn4527	98	BoC08_41383351_301	BoC08	41383351
BnC08	BoGMS1166	98.6			
BnC08	bn44795	102.5	BoScaffold000330_36569_301		

BnC08	BEN136B	104	BoC08_41173283_131	BoC08	41173283
BnC08	bna5805	115.4	BoC08_41421132_301	BoC08	41421132
BnC08	bna4526	116	BoC08_41433239_301	BoC08	41433239
BnC08	BEN136A	116.9	BoC08_41173283_131	BoC08	41173283
BnC08	BrGMS375B	122.1	BrA09_36262449_164	BrA09	36262449
BnC08	BrGMS375A	125.4	BrA09_36262449_164	BrA09	36262449
BnC08	bna2772	126.8	BrA09_36860095_301	BrA09	36860095
BnC08	bna2784	127.7	BrA09_35707655_301	BrA09	35707655
BnC08	bna2789	129.7	BrA09_35389195_301	BrA09	35389195
BnC08	bna2790	129.7	BrA09_35321451_301	BrA09	35321451
BnC08	bna2791	130	BrA09_35278168_284	BrA09	35278168
BnC08	bna5099	130	BrA09_35278168_284	BrA09	35278168
BnC08	bna2796	133	BrA09_33398631_301	BrA09	33398631
BnC08	bna2799	135	BrA09_32229790_301	BrA09	32229790
BnC08	bna5427	135	BoC08_35949347_304		
BnC08	bna5723	135.3	BrA09_32177679_301	BrA09	32177679
BnC08	bna4491	135.9	BoC08_34986249_301		
BnC08	bna2939	136.2	BrA09_31788228_301	BrA09	31788228
BnC08	bna4493	136.2	BoC08_35073478_301		
BnC08	BoGMS1382	137.6			
BnC08	BnEMS14	137.9	BoC08_36424147_266		
BnC08	BoGMS1308	139			
BnC08	BoGMS586	140.2	BoC08_34092882_250		
BnC08	BrGMS5	143.7	BrA09_30466050_255	BrA09	30466050
BnC08	bna5724	144.6	BrA09_30571654_300	BrA09	30571654
BnC08	bna4521	144.6	BoC08_33259513_301		
BnC09	bna1478	0	BrA02_23454785_301		
BnC09	bna5851	3.6	BoC09_171077_274	BoC09	171077
BnC09	BEN332C	4.7	BoC09_186601_237	BoC09	186601
BnC09	BGO199B	8.6	BoC09_193617_190	BoC09	193617
BnC09	BoGMS1072	15.7			
BnC09	BGO199A	19.3	BoC09_193617_190	BoC09	193617
BnC09	BEN343	20.7	BoC09_30393262_235		
BnC09	bna5746	21.8	BrA09_696711_301		
BnC09	bna4581	22.9	BoC09_2014248_302	BoC09	2014248
BnC09	bna4586	22.9	BoC09_1934744_301	BoC09	1934744
BnC09	bna4579	23.5	BoC09_2055747_260	BoC09	2055747
BnC09	bna5960	23.5	BoC09_2063866_301	BoC09	2063866
BnC09	bna3638	23.8	BoC09_2186157_301	BoC09	2186157
BnC09	BoGMS1484	25.2			
BnC09	BrGMS725B	26.3	BrA09_2302831_166		
BnC09	BEN55A	26.9	BoC09_2708553_177	BoC09	2708553
BnC09	FITO135B	27.2			
BnC09	FITO136	30.4			
BnC09	bna4585	40	BoC09_1990112_301		
BnC09	BnEMS820B	73.8			
BnC09	bna4592	75.5	BoC09_5057885_301	BoC09	5057885

BnC09	bn4591	75.5	BoC09_5058499_301	BoC09	5058499
BnC09	bn4761	81.5	BoC09_6686378_301	BoC09	6686378
BnC09	BnGMS213A	81.5	BrA09_13917079_149		
BnC09	BGO196	83.2	BoC09_6732672_119	BoC09	6732672
BnC09	bn40971	84.9	BoC09_7208308_301	BoC09	7208308
BnC09	bn44601	84.9	BoScaffold000035_P2_283375_259		
BnC09	bn44602	85.2	BoScaffold000035_P2_669076_301		
BnC09	bn43857	85.5	BoScaffold000035_P2_1472078_301		
BnC09	bn41011	85.5	BoC07_13141450_301		
BnC09	Na10-C01C	85.5	BoC09_8400120_250	BoC09	8400120
BnC09	BEN203	87.2	BoC09_18992253_333	BoC09	18992253
BnC09	bn44594	93.9	BoC09_23062819_301	BoC09	23062819
BnC09	bn40875	99.2	BoC09_34857697_301	BoC09	34857697
BnC09	bn44041	108.6	BoScaffold000161_P1_535291_229		
BnC09	bn40166	116.3	BrA07_13942212_301		
BnC09	bn42881	119.7	BoC07_33651629_305		
BnC09	bn41399	122	BrA02_8955295_301		
BnC09	bn43506	122	BoScaffold000001_P2_811933_302		
BnC09	bn43005	124	BrA10_14402659_301		
BnC09	bn40339	126.6	BrA08_8334365_302		
BnC09	bn43026	130.2	BrA10_13332063_292		
BnC09	bn45261	132.2	BrA10_13332063_292		
BnC09	bn40491	133.1	BoC07_10188434_304		
BnC09	bn41800	134.8	BrA03_712458_302		
BnC09	bn41436	135.9	BrA08_14011236_307		
BnC09	bn44442	136.8	BoC08_30597656_301		
BnC09	bn44265	142.4	BoC06_2517867_301		
BnC09	bn42801	147	BrA09_30763855_297		
BnC09	bn41529	148.4	BrA03_29998397_301		
BnC09	bn40944	149.5	BoScaffold000269_459624_300		
BnC09	bn43579	149.8	BoC03_4310209_301		
BnC09	bn41048	149.8	BoC08_3936744_301	BoC08	3936744
BnC09	bn40409	149.8	BoC08_4387772_301	BoC08	4387772
BnC09	bn44216	149.8	BoC08_6008129_301	BoC08	6008129
BnC09	bn44218	149.8	BoC08_6095312_301	BoC08	6095312
BnC09	bn40514	149.8	BoC06_39793715_301		
BnC09	bn40934	149.8			
BnC09	bn44220	149.8	BoC08_6163945_301	BoC08	6163945
BnC09	bn40535	149.8	BoC09_20621229_301		
BnC09	bn44221	149.8	BoC08_6286405_301	BoC08	6286405
BnC09	bn43599	150.1	BoC03_5270613_301		
BnC09	bn45849	150.7	BoC09_4095080_301		
BnC09	bn41945	151.6	BrA01_16571686_301		
BnC09	bn45399	154.2	BrA07_14137999_301		
BnC09	bn40582	159.5	BoScaffold000020_P3_180753_297		
BnC09	bn43521	167.3	BoC01_18780739_301		

^aThe method for identification of homologous collinear locus in *B. rapa* and *B. oleracea* is described by Cai *et al.* [29].

^bThe left, middle, and right refers the chromosome or scaffold of the *B. rapa* or *B. oleracea*, the physical position of the homologous locus in *B. rapa* (<http://brassicadb.org/brad/index.php>; chromosome_v1.5) or *B. oleracea* (<http://www.ocri-genomics.org/bolbase/>; chromosome_v1.0) chromosome or scaffold, and the matching base pairs of the homologous locus in *B. rapa* or *B. oleracea*, respectively.

^cThe colors of the homologous collinear fragments are same as to the colors of the *B. rapa* and *B. oleracea* chromosomes which described by Cai *et al.* [29].