

Supplementary data:

Comparative mapping reveals similar linkage of functional genes to QTL of yield-related traits between *Brassica napus* and *Oryza sativa*

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Marker	Length of sequence (bp)	Position of subject	Position of query	Identities (%)	Expect value	Accession no.
ABC1-SI	324	1-324	192-515	97	9.00E-162	CD813230
AdoHcyase-1-SI	157	1-157	210-366	96	6.00E-69	CD836192
AdoHcyase-2-SI	156	5-156	215-366	91	7.00E-54	CD836192
AdoHcyase-3-SI	147	1-147	220-366	91	5.00E-51	CD836192
AdoHcyase-5-EA	154	3-154	215-366	90	4.00E-52	CD836192
ANL2-EA	204	1-204	210-407	93	4.00E-77	CD822199
ARFGA-2-SI	223	1-223	174-396	99	E-115	CD824574
ARFGA-3-EA	223	1-223	174-396	99	E-115	CD824574
ARFGA-4-EA	223	1-223	174-396	98	6.00E-115	CD824574
ATSP-3-EA	424	144-424	409-129	99	6.00E-149	CD844304
EXGT-3-EA	298	1-298	314-17	99	6.00E-159	CD827436
EXO-1-SI	187	1-163	494-656	99	5.00E-81	CN827033
FRD3-EA	332	1-332	170-502	99	2.00E-174	CD826249
GLOSSY8-1-SI	279	6-276	624-354	98	7.00E-140	CD827808
GLOSSY8-2-SI	278	5-275	624-354	96	4.00E-123	CD827808
GLOSSY8-3-EA	279	6-276	624-354	97	E-134	CD827808
GLOSSY8-4-EA	278	5-275	624-354	98	4.00E-138	CD827808
GTL-1-SI	280	1-280	265-544	99	2.00E-148	CD826243
GTL-2-EA	280	1-280	265-544	97	4.00E-138	CD826243
KRCP-1-SI	335	1-335	261-595	99	8.00E-177	CD830343
KRCP-3-EA	341	6-341	595-260	100	0	CD830343
KRCP-4-EA	336	1-336	260-595	99	2.00E-177	CD830343
LEURT-1-SI	150	1-150	188-338	98	E-69	CD826172
LEURT-3-SI	152	1-152	187-388	98	3.00E-71	CD826172
LEURT-4-EA	151	1-151	338-188	97	6.00E-69	CD826172
LEURT-5-EA	151	1-151	338-188	96	2.00E-65	CD826172
ODDO-1-EA	298	1-298	105-402	98	2.00E-155	CD814698
ODDO-2-SI	299	1-299	104-402	96	7.00E-144	CD814698
OHP2-1-EA	190	1-190	259-70	97	2.00E-91	CD828875
PB1-1-SI	278	1-278	714-440	97	5.00E-134	CD826264
PB1-2-EA	274	1-274	440-714	98	3.00E-139	CD826264
PB1-4-EA	278	1-278	440-714	96	E-130	CD826264
PB1-5-SI	269	1-269	714-440	91	6.00E-100	CD826264
PB1-6-EA	269	1-269	714-440	91	E-101	CD826264

Marker	Length of sequence (bp)	Position of subject	Position of query	Identities (%)	Expect value	Accession no.
PLR-EA	185	1-185	261-77	99	9.00E-94	CD823530
RABGAP-SI	333	1-333	620-288	98	2.00E-170	CD823463
RPL90A-1-SI	155	1-155	277-431	98	5.00E-73	CD834106
RPL90A-2-SI	151	1-151	277-421	98	E-70	CD834106
RPL90A-3-EA	155	1-155	431-277	96	2.00E-69	CD834106
RPL90A-4-EA	148	1-148	280-427	97	3.00E-67	CD834106
SUC1-1-SI	235	1-235	441-206	96	4.00E-108	AY190281
SUC1-2-EA	236	1-236	441-206	100	7.00E-125	AY190281
APL3-1-SI	479	173-298/1-82/ 379-479	326-451/245-326/ 458-558	97/97/91	E-55/6E-32/9E-31	CD827309
APL3-2-SI	488	173-298/ 388-488/1-82	326-451/458-558/ 245-326	96/98/100	6E-54/6E-43/2E-35	CD827309
APL3-3-EA	479	173-298/ 1-82/379-479	326-451/245-326/ 458-558	97/97/91	E-55/6E-32/9E-31	CD827309
APOC-1-SI	245	1-92/168-245	126-217/48-125	98/97	9E-40/6E-30	CD815825
APOC-2-EA	246	154-246/1-78	125-217/48-125	100/100	4E-42/2E-33	CD815825
ATHA-EA	325	1-179/257-325	237-415/239-171	97/100	8E-85/4E-28	CD831246
ATHB-1-SI	230	1-21/204-224	603-583/583-603	100/100	1.8	CD837508
ATHB-2-SI	224	1-21/204-224	603-583/583-603	100/100	1.8	CD837508
ATHB-3 -SI	223	1-21/204-224	603-583/583-603	100/100	1.8	CD837508
ATHB-4 -SI	220	1-21/204-224	603-583/583-603	100/100	1.8	CD837508
ATHB-5-EA	282	1-122/255-282	603-482/481-454	100/100	8E-59/2E-04	CD837508
ATSP-1-SI	441	1-280/406-441	190-409/408-443	98/100	2E-141/8E-09	CD844304
ATSP-2-SI	435	1-276/400-435	134-409/408-443	97/100	E-139/6E-09	CD844304
BGAL9-SI	434	201-434/1-119	268-35/384-266	97/100	5E-113/7E-57	CD822546
BHLH -EA	316	1-121/212-316	407-287/287-103	98/98	E-54/2E-45	CD814341
BSPR-1-SI	310	221-310/1-23	227-138/335-313	85/100	E-17/0.18	CD818227
BSPR-4-EA	310	221-310/1-23	227-138/335-313	86/100	E-19/0.18	CD818227
C2H2T-1-SI	263	1-91/183-263	339-249/251-171	97/100	2E-37/4E-35	CD827449
C2H2T-2-EA	263	1-91/183-263	339-249/251-171	97/100	2E-37/4E-35	CD827449
CAS1-10-EA	254	121-254/1-24	506-639/1-24	97/100	E-60/0.037	CD828014
CAS1-1-SI	252	120-252/1-20	507-639/485-508	98/100	9E-62/0.018	CD828014
CAS1-2-EA	264	131-264/1-24	506-639/485-508	92/100	2E-48/0.039	CD828014
CAS1-3-SI	264	1-134/241-264	639-509/508-485	92/100	2E-48/0.039	CD828014
CAS1-4-EA	235	101-235/1-24	505-639/508-485	99/100	E-64/0.034	CD828014
CAS1-5-SI	252	120-252/1-24	507-639/485-508	98/100	9E-62/0.037	CD828014
CAS1-6-EA	254	121-254/1-24	506-639/1-24	97/100	E-60/0.037	CD828014
CAS1-7-EA	254	121-254/1-24	506-639/1-24	98/100	2E-62/0.037	CD828014
CAS1-8-SI	235	101-235/1-24	505-639/485-508	99/100	E-64/0.034	CD828014
CAS1-9-SI	252	120-252/1-24	507-639/485-508	98/100	9E-62/0.037	CD828014
CDKC-EA	260	1-110/181-260	252-361/181-260	100/98	6E-52/8E-33	CD814110
CHS-1-EA	239	108-239/1-33	214-345/182-214	100/100	E-64/2E-07	AF076334
CHS-2-EA	270	139-270/1-54	214-345/161-214	87/94	4E-38/3E-14	AF076334
CYPRT-2-SI	627	522-627/1-92	362-257/454-363	99/97	2E-47/E-37	CD825388
FAD6 -SI	898	220-315/602-783/ 4-114/318-335	480-575/755-935/ 228-338/597-634	97/83/93	9E-40/3E-36	L29214
FERRITN-1-SI	274	1-151/231-274	251-401/402-445	99/100	7E-74/E-13	CD820594
FERRITN-2-SI	274	124-274/1-44	251-401/402-445	98/100	4E-72/E-13	CD820594
FERRITN-3-EA	280	1-151/237-280	251-401/402-445	98/100	2E-70/E-13	CD820594
FERRITN-4-EA	280	130-280/1-44	251-401/402-445	98/100	4E-72/E-13	CD820594

Marker	Length of sequence (bp)	Position of subject	Position of query	Identities (%)	Expect value	Accession no.
GCIP1-EA	621	134-375/466-621	571-330/330-175	100/100	7E-128/4E-78	CD830043
HMG1-1-SI	722	405-720/ 119-305/1-41	405-721/119-305/ 148-188	100/100/100	E-170/5E-96/2E-11	CD828240
HMG1-2-SI	722	405-722/ 119-305/1-42	367-684/183-369/ 148-188	99/100/100	4E-170/5E-96/2E-11	CD828240
HMG1-3-EA	721	1-318/417-603/ 681-721	684-367/369-183/ 188-148	99/100/97	4E-170/5E-96/9E-10	CD828240
HMG1-4-EA	721	1-318/417-603/ 681-721	684-367/369-183/ 188-148	99/100/100	E-166/5E-96/2E-11	CD828240
NAM-1-SI	359	1-65/332-359	311-247/285-312	93/96	9E-19/0.015	CD837251
NAM-2-SI	359	294-359/1-27	247-312/311-285	93/96	2E-19/0.055	CD837251
NAM-3-SI	358	1-65/331-358	311-247/285-312	93/96	9E-19/0.014	CD837251
NAM-4-SI	360	1-65/333-360	311-247/285-312	93/96	9E-19/0.014	CD837251
OHP2-2-EA	175	129-259/70-122	45-175/1-53	96/98	9E-57/8E-17	CD828875
PPCE-SI	457	362-457/1-86/ 210-282	138-43/293-208/ 208-136	100/97/100	E-43/3E-34/3E-30	CD825866
PTS-1-SI	271	165-271/1-75	170-64/242-182	99/100	2E-48/E-31	CD815241
PTS-2-SI	268	1-107/194-268	64-170/168-242	99/100	2E-48/E-31	CD815241
PTS-3-EA	263	1-107/189/263	64-170/168-242	100/100	4E-50/E-31	CD815241
RHL1-1-SI	295	188-295/1-113	328-435/218-330	99/97	6E-49/2E-48	CD821435
RHL1-2-EA	295	188-295/1-113	328-435/218-330	99/97	6E-49/2E-48	CD821435
RRM-SI	289	170-289/1-126	195-318/26-157	93/85	4E-28/2E-22	CD820841
SBE-1-SI	363	519-623/442-520/ 623-646	153-257/1-79/ 340-363	91/97/100	3E-33/2E-30/0.055	CD827444
SBE-2-EA	362	519-623/442-520/ 623-646	151-255/1-79/ 339-362	93/97/100	E-36/2E-30/0.055	CD827444
SBE-3-EA	362	519-623/442-520/ 623-646	151-255/1-79/ 339-362	93/97/100	E-36/2E-30/0.055	CD827444
TRSDN-1-SI	291	1-213/240-291	120-332/365-416	96/100	5E-102/2E-18	CD833259
TRSDN-2-SI	291	79-291/1-52	332-120/416-365	98/100	2E-104/3E-18	CD833259
TRSDN-4-EA	297	1-213/272-297	120-332/391-416	98/96	2E-204/0.17	CD833259
DELTA-EA	925	–	–	–	–	X97325
DELTA-SI	903	–	–	–	–	X97325
PAP-1-SI	168	–	–	–	–	CD834713
PAP-2-SI	165	–	–	–	–	CD834713
PAP-3-EA	159	–	–	–	–	CD834713