

Supplementary Information Table S2. Sequences of barcode primers used to amplify material in this study. Primers generated from *Brassica napus* L. strain ZY036 chloroplast complete genome sequence (Genbank: GQ861354)

Primer	Sequence	Primer Position on GQ861354
<i>matK1Fo</i>	CGAGTTCCATTCGTAATTTG	3985-4004
<i>matK1Fi</i>	ATAGATTAGTACCTAATACGGGTA	3930-3953
<i>matK1Ro</i>	TTATCAATATACTGCTTCTTTTAC	3809-3832
<i>matK1Ri</i>	TACTCGTTCTTTTACACATCC	3818-3838
<i>matK1aFo</i>	CCTAGTCCGTTTGGGTTAGGTTG	3844-3866
<i>matK1aFi</i>	CGTTTGGGTTAGGTTGGAGATGGAT	3835-3859
<i>matK1aRo</i>	ATCTTTAATAGGTTTCTGTTCGT	3690-3712
<i>matK1aRi</i>	ACCTAATCGCTCTTTTGATTTTGG	3763-3786
<i>matK1bFo</i>	TTCCAAAATCAAAAGAGCGAT	3768-3789
<i>matK1bFi</i>	CCAAAATCAAAAGAGCGATTAGGT	3763-3786
<i>matK1bRo</i>	GTTCTGAAATGACATAGTGTGCG	3590-3612
<i>matK1bRi</i>	TGAAATGACACATAGTGCGATACAGTCA	3594-3621
<i>matK1cFo</i>	GGAGAAATTTCAAGGATATTTAGAGTTCG	3510-3538
<i>matK1cFi</i>	GGATATTTAGAGTTCGATGGGGCTC	3501-3525
<i>matK1cRo</i>	ATCAAACGATTCTGTTCGTACATTCTG	3314-3339
<i>matK1cRi</i>	ATTAAGCGTTTCACAATTAGTGAACATA	3344-3370
<i>matK4Fo</i>	CGCTTAATTTTGC GAATGTACGAACAGAATC	3321-3351
<i>matK4Fi</i>	GATTATTCCCACTAAGGATTTGAAC	3292-3316
<i>matK4Ro</i>	CTTTTACCCGGTAACGTAGGGTTTGAACC	3027-3055
<i>matK4Ri</i>	GTAGGGTTTGAACCAAGATTTCTAG	3042-3066
<i>matK5aFo</i>	CTACGCAAGCAGTCTTCTCATTTACGATC	2846-2874
<i>matK5aFi</i>	AGCAGTCTTCTCATTTACGATCGACATC	2840-2867
<i>matK5aRo</i>	GAATGTATTTTCCATGATATCTAACATA	2697-2724
<i>matK5aRi</i>	TTCCATGATATCTAACATAATGTAGGA	2706-2732
<i>matK5Fo</i>	TACCGGGTAAAAGATGCCTCTT	3018-3039
<i>matK7Ro</i>	TCATTGCACACAGCTTTCTCTATG	1797-1820
<i>rbcLa-f (E)</i>	AGTCCACCGCGTAGACATTCAT	54213-54234
<i>rbcL590R</i>	ATGTCACCACAAACAGAGACT	53645-53665
<i>rbcL1Fo</i>	CTATTCCTAATTTATGTCGAGTAGACCTTG	53562-53591
<i>rbcL1Fi</i>	TGCAAGAATTCTAAATTCATGACTTGTAGGGA	53606-53637
<i>rbcL1Ro</i>	GGCTGGTAAGCCCATCGGTCCACACAGTTGTC	53842-53873
<i>rbcL1Ri</i>	CATGTACCAGTAGAAGATTCAGCAGCTACCGCAG	53808-53841
<i>rbcLR319</i>	GGTCTAAAGGGTAAGCTACATA	53942-53963
<i>rbcL3Fo</i>	ATCCGCGAAGAACTATGGTAGAGCAGTT	54184-54211
<i>rbcL3Fi</i>	TAGAGCAGTTTATGAATGTCTACGTGGTG	54202-54230

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Primers	Sequences 5'- 3'	Primer Position on GQ861354
<i>rbcL3Ro</i>	TCATCATTCTTCGCATGTACCCGCAGTA	54370-54398
<i>rbcL3Ri</i>	TTCTTCGCATGTACCCGCAGTAGCATTCA	54363-54391
<i>rbcL4Fo</i>	GAGAATTGGGAGTTCCTATCGTAATGC	54417-54440
<i>rbcL4Fi</i>	TTGGGAGTTCCTATCGTAATGCATGACTACTCAAG	54422-54452
<i>rbcL4Ro</i>	TTTACCTACTACTACTGTACCCGCGTGA	54622-54641
<i>rbcL4Ri</i>	CTACTACTGTACCCGCGTGAACATGATCTC	54612-54641
<i>rbcL5Fo</i>	CGATGATTATGTTGAAAAAGACCGAAGTCTATGTT	54694-54722
<i>rbcL5Fi</i>	GAAAAAGACCGAAGTCGTGGTATC	54707-54730
<i>rbcL5Ro</i>	ATGCTTCTAGAGCTACTCGGTTAGCTACGGCA	54892-54923
<i>rbcL5Ri</i>	CTACTCGGTTAGCTACGGCACCCGGTGCATT	54881-54911
<i>trnH-psbAF</i>	ACTGCCTTGATCCACTTGGC	75-94
<i>trnH-psbAR</i>	CGAAGCTCCATCTACAAATGG	365-385