Supplementary Figure 1: Alignment of five different Cruciferins of *Brassica napus* shows distinct sequence variations at the N-terminal region, a highly conserved cleavage site (red vertical line) and a conserved C-terminal region. Amino acid positions identical in all sequences are shown in dark blue, positions identical in four sequences in middle blue and positions identical in three sequences in light blue. UniProt accession numbers correspond to the following Cruciferin families: family 1: P33525 = Cru 1; family 2: P33523 = BnC1, P33524 = BnC2, P11090 = Cru 2/3; family 3: P33522 = Cru 4. Peptides used for antibody production are boxed. N-terminal â-polypeptide chain (black boxes): GSTAQFPNCEQLDQ (amino acid positions 20 – 41), GFRDMHQKVHERHTGC (positions 161-175); C-terminal â-polypeptide chain (red boxes): CTDNLDDPSADVYKP (positions 311-326), VVNDNGDRVFDGQVSQ (positions 383-398).
**Supplementary Figure 2:** Identification of Cruciferin subunits separated by 1D BN PAGE (A), 1D SDS PAGE with DTT (B), 1D SDS PAGE without DTT (C), 2D BN/SDS PAGE (D) and 2D IEF/SDS PAGE (E) via LC MS/MS. Spots and bands were picked from all gels, digested with trypsin and analyzed by mass spectrometry. The spot numbers (black) refer to those given in Supplementary Table 1. Molecular masses of standard proteins are given in kDa (red numbers). Isoelectric points are indicated above the IEF/SDS gel.
## SUPPLEMENTARY TABLES

### Supplementary Table 1: Identified proteins of the PSV fraction of B. napus mature seeds (from Supplementary Figure 2)

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| P09893 (S) | Napin embryo-specific | B. napus | 21.5 | 150 | 4 | 23.7 |
| P80208 (S) | Napin-3 | B. napus | 20.8 | 147 | 5 | 45.6 |
| 16a | P80208 (S) | Napin-3 | B. napus | 14.5 (~12) | 645 | 6 | 46.4 |
| P17333 (S) | Napin | B. napus | 20.8 | 513 | 5 | 31.7 |
| P01090 (S) | Napin-2 | B. napus | 20.5 | 303 | 6 | 32.0 |
| P11090 (S) | Cruciferin CRU 2/3 | B. napus | 54.0 | 173 | 4 (4α) | 10.5 |
| P33523 (S) | Cruciferin BnCl | B. napus | 54.1 | 173 | 4 (4α) | 10.5 |
| P09893 (S) | Napin embryo-specific | B. napus | 21.5 | 170 | 4 | 14.5 |
| P27740 (S) | Napin-B | B. napus | 20.5 | 131 | 6 | 31.5 |
| P33522 (S) | Cruciferin CRU 4 | B. napus | 51.6 | 68 | 2 (2α) | 6.2 |
| 17 | P80208 (S) | Napin-3 | B. napus | 14.5 (~7) | 414 | 3 | 32.0 |
| P17333 (S) | Napin | B. napus | 20.8 | 414 | 3 | 22.0 |
| P09893 (S) | Napin embryo-specific | B. napus | 21.5 | 238 | 4 | 17.2 |
| P33525 (S) | Cruciferin CRU 1 | B. napus | 56.5 | 45 | 2 (2α) | 5.9 |
| 18 | P80208 (S) | Napin-3 | B. napus | 14.5 (~5) | 662 | 4 | 39.2 |
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| P01090 (S) | Napin-2 | B. napus | 20.5 | 273 | 4 | 27.0 |
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| 19 | P33525 (S) | Cruciferin CRU 1 | B. napus | 56.5 (~63) | 1364 | 14 (4α10β) | 26.3 |
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| P01091 (S) | Napin-1 | B. napus | 15.3 | 43 | 2 | 18.0 |
| P01090 (S) | Napin-2 | B. napus | 20.5 | 43 | 2 | 13.0 |
| P80208 (S) | Napin-3 | B. napus | 14.5 | 43 | 2 | 19.0 |
| P17333 (S) | Napin | B. napus | 20.8 | 43 | 2 | 13.0 |
| 20 | P33523 (S) | Cruciferin BnCl | B. napus | 54.1 (~60) | 1190 | 10 (9α1β) | 23.7 |
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| 21 | P33525 (S) | Cruciferin CRU 1 | B. napus | 56.5 (~58) | 1419 | 21 (8α13β) | 43.6 |
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| 22 | P33525 (S) | Cruciferin CRU 1 | B. napus | 56.5 (~54) | 2256 | 23 (8α15β) | 47.9 |
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| P11090 (S)  | Cruciferin CRU 2/3 | B. napus | 54.0 | 83 | 3 (2α1β) | 8.8 |
| P33523 (S)  | Cruciferin BnC1 | B. napus | 54.1 | 83 | 3 (2α1β) | 8.8 |
| P01091 (S)  | Napin-1 | B. napus | 15.7 | 40 | 3 | 24.1 |
| P01090 (S)  | Napin-2 | B. napus | 20.5 | 40 | 3 | 17.0 |
| P80208 (S)  | Napin-3 | B. napus | 14.5 | 40 | 3 | 25.0 |
| P17333 (S)  | Napin | B. napus | 20.8 | 40 | 3 | 17.0 |

| 34 | P33525 (S)  | Cruciferin CRU 1 | B. napus | 56.5 (~35) | 566 | 10 (6α4β) | 20.2 |
| P11090 (S)  | Cruciferin CRU 2/3 | B. napus | 54.0 | 121 | 2 (2α) | 4.3 |
| P33523 (S)  | Cruciferin BnC1 | B. napus | 54.1 | 121 | 2 (2α) | 4.3 |
| P33522 (S)  | Cruciferin CRU 4 | B. napus | 51.6 | 105 | 2 (1α1β) | 6.5 |

| 35 | P33525 (S)  | Cruciferin CRU 1 | B. napus | 56.5 (~33) | 370 | 9 (6α3β) | 18.1 |
| P11090 (S)  | Cruciferin CRU 2/3 | B. napus | 54.0 | 130 | 2 (2α) | 4.3 |
| P33523 (S)  | Cruciferin BnC1 | B. napus | 54.1 | 130 | 2 (2α) | 4.3 |
| P33522 (S)  | Cruciferin CRU 4 | B. napus | 51.6 | 111 | 4 (3α1β) | 9.0 |

| 36 | P33523 (S)  | Cruciferin BnC1 | B. napus | 54.1 (~31) | 653 | 12 (12α) | 21.6 |
| P33525 (S)  | Cruciferin CRU 1 | B. napus | 56.5 | 623 | 9 (4α5β) | 18.9 |
| P33524 (S)  | Cruciferin BnC2 | B. napus | 54.5 | 516 | 8 (8α) | 17.7 |
| P33522 (S)  | Cruciferin CRU 4 | B. napus | 51.6 | 326 | 6 (5α1β) | 15.3 |

| 37 | P33522 (S)  | Cruciferin CRU 4 | B. napus | 51.6 (~26) | 643 | 10 (9α1β) | 18.3 |
| P11090 (S)  | Cruciferin CRU 2/3 | B. napus | 54.0 | 336 | 5 (4α1β) | 12.1 |
| P33523 (S)  | Cruciferin BnC1 | B. napus | 54.1 | 336 | 5 (4α1β) | 12.1 |
| P33525 (S)  | Cruciferin CRU 1 | B. napus | 56.5 | 223 | 6 (3α3β) | 13.9 |

| 38 | P33525 (S)  | Cruciferin CRU 1 | B. napus | 56.5 (~72) | 441 | 8 (5α3β) | 18.1 |
| P33522 (S)  | Cruciferin CRU 4 | B. napus | 51.6 | 320 | 5 (4α1β) | 11.6 |
| P11090 (S)  | Cruciferin CRU 2/3 | B. napus | 54.0 | 264 | 9 (8α1β) | 16.8 |
| P33523 (S)  | Cruciferin BnC1 | B. napus | 54.1 | 264 | 9 (8α1β) | 16.8 |

| 39 | P33525 (S)  | Cruciferin CRU 1 | B. napus | 56.5 (~65) | 586 | 6 (2α4β) | 13.8 |
| P33522 (S)  | Cruciferin CRU 4 | B. napus | 51.6 | 399 | 5 (3α2β) | 10.8 |
| P11090 (S)  | Cruciferin CRU 2/3 | B. napus | 54.0 | 345 | 3 (2α1β) | 7.8 |
| P33523 (S)  | Cruciferin BnC1 | B. napus | 54.1 | 345 | 3 (2α1β) | 7.8 |

| 40 | P33522 (S)  | Cruciferin CRU 4 | B. napus | 51.6 (~54) | 548 | 4 (2α2β) | 9.9 |
| P33525 (S)  | Cruciferin CRU 1 | B. napus | 56.5 | 503 | 9 (5α4β) | 20.0 |
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| P33523 (S)  | Cruciferin BnC1 | B. napus | 54.1 | 342 | 6 (5α1β) | 10.2 |

| 41 | P33525 (S)  | Cruciferin CRU 1 | B. napus | 56.5 (~44) | 1031 | 15 (7α8β) | 31.4 |
| P33522 (S)  | Cruciferin CRU 4 | B. napus | 51.6 | 463 | 5 (3α2β) | 10.8 |
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<p>| 42 | P33525 (S)  | Cruciferin CRU 1 | B. napus | 56.5 (~40) | 543 | 8 (4α4β) | 18.7 |</p>
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### 2D IEF/SDS PAGE

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a Spot numbers in accordance with Supplementary Figure 2.
c Calculated molecular masses of the identified proteins as deduced from the corresponding genes. Additional information is given in this column as follows: Section 1D BN PAGE: apparent molecular masses of the protein complexes on gels (in brackets); Section 1D SDS PAGE: apparent molecular masses of the proteins on gels (in brackets). Note: apparent molecular masses differ substantially from calculated molecular masses because the Cruciferin precursor proteins (~50 kDa) are cleaved into the Cruciferin α (~30 kDa) and β (~20 kDa) chains during protein maturation; Section 2D BN/SDS PAGE: apparent molecular masses of the proteins on gels (in brackets). Note: apparent molecular masses differ substantially from calculated molecular masses as discussed above; Section 2D IEF/SDS PAGE: calculated molecular masses and pI from databases, apparent molecular masses and pI on gels (in brackets). Note: apparent molecular masses and pIs differ substantially from calculated masses as discussed above.
d Probability score for the protein identifications based on MS/MS analysis and MASCOT search.
e Number of unique matching peptides and number of unique peptides matching to the α or β polypeptide chain (in brackets).