Table S3 – Haplotypes scored for the *ef1α* marker. The fourth column lists the obtained sequences belonging to each haplotype. Accession numbers of the haplotype nucleotide sequence submitted to EMBL/NCBI/DDBJ databanks are given in column #2.

| **Haplotype label** | **Accession number** | **Number of sequences** | **Length of haplotype (bp)** | **Sequences belonging to haplotype** | **Life stage (A)dult (L)arva** | **Host plant** | **Country** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| H01 | LN849446 | 2 | 760 | TB03AN45a | A | *Onopordum* | Spain |
|  |  |  |  | TB16A02a | A | Unknown | Spain |
| H02 | LN849447 | 6 | 760 | TB03AN45b | A | *Onopordum* | Spain |
|  |  |  |  | TB15A01b | A | *Onopordum* | Spain |
|  |  |  |  | TB16A01b | A | Unknown | Spain |
|  |  |  |  | TB16A02b | A | Unknown | Spain |
|  |  |  |  | TH28A03b | A | *Carduus* | Spain |
|  |  |  |  | TH29A06b | A | *Carduus* | Spain |
| H03 | LN849448 | 39 | 760 | TB05AN24 | A | *Onopordum* | Spain |
|  |  |  |  | TB05B03 | A | *Onopordum* | Spain |
|  |  |  |  | TB05B04 | A | *Onopordum* | Spain |
|  |  |  |  | TB09A05 | A | *Onopordum* | Spain |
|  |  |  |  | TB09A11 | A | *Onopordum* | Spain |
|  |  |  |  | TB10A21 | A | *Onopordum* | Spain |
|  |  |  |  | TB10A25 | A | *Onopordum* | Spain |
|  |  |  |  | TB11A29 | A | *Onopordum* | Spain |
|  |  |  |  | TB11A34 | A | *Onopordum* | Spain |
|  |  |  |  | TB11A40 | A | *Onopordum* | Spain |
|  |  |  |  | TB14A01 | A | *Onopordum* | Spain |
|  |  |  |  | TB14A02 | A | *Onopordum* | Spain |
|  |  |  |  | TB14A03 | A | *Onopordum* | Spain |
|  |  |  |  | TB14A04 | A | *Onopordum* | Spain |
|  |  |  |  | TB17A01 | A | *Onopordum* | Spain |
|  |  |  |  | TB17A02 | A | *Onopordum* | Spain |
|  |  |  |  | TB17A03 | A | *Onopordum* | Spain |
|  |  |  |  | TB18A01 | A | Unknown | Spain |
|  |  |  |  | TB19A02 | A | *Onopordum* | Spain |
|  |  |  |  | TB19A03 | A | *Onopordum* | Spain |
|  |  |  |  | TB19A04 | A | *Onopordum* | Spain |
|  |  |  |  | TB20A03 | A | *Onopordum* | Spain |
|  |  |  |  | TB20A04 | A | *Onopordum* | Spain |
|  |  |  |  | TB21A01 | A | *Onopordum* | Spain |
|  |  |  |  | TB21A02 | A | *Onopordum* | Spain |
|  |  |  |  | TB21A03 | A | *Onopordum* | Spain |
|  |  |  |  | TB22A01 | A | *Onopordum* | Spain |
|  |  |  |  | TB22A02 | A | *Onopordum* | Spain |
|  |  |  |  | TB22A04 | A | *Onopordum* | Spain |
|  |  |  |  | TB22A05 | A | *Onopordum* | Spain |
|  |  |  |  | TB24A01 | A | Unknown | Spain |
|  |  |  |  | TB25A01 | A | *Onopordum* | Spain |
|  |  |  |  | TB25A03 | A | *Onopordum* | Spain |
|  |  |  |  | TB26A01 | A | *Onopordum* | Spain |
|  |  |  |  | TB26A02 | A | *Onopordum* | Spain |
|  |  |  |  | TB26A03 | A | *Onopordum* | Spain |
|  |  |  |  | TB40A01 | A | *Onopordum* | Spain |
|  |  |  |  | TH26A01 | A | Unknown | Spain |
|  |  |  |  | TH26A02 | A | Unknown | Spain |
| H04 | LN849449 | 42 | 760 | TB15A01a | A | *Onopordum* | Spain |
|  |  |  |  | TB16A01a | A | Unknown | Spain |
|  |  |  |  | TB24A02a | A | Unknown | Spain |
|  |  |  |  | TH03A06 | A | *Carduus* | Canada |
|  |  |  |  | TH23A01a | A | *Carduus* | Germany |
|  |  |  |  | TH24A01a | A | *Carduus* | Germany |
|  |  |  |  | TH26B02 | A | *Carduus* | Spain |
|  |  |  |  | TH28A03a | A | *Carduus* | Spain |
|  |  |  |  | TH28A04 | A | *Carduus* | Spain |
|  |  |  |  | TH29A01 | A | *Carduus* | Spain |
|  |  |  |  | TH29A06a | A | *Carduus* | Spain |
|  |  |  |  | TH31A01 | A | *Carduus* | France |
|  |  |  |  | TH31A02 | A | *Carduus* | France |
|  |  |  |  | TH31A04 | A | *Carduus* | France |
|  |  |  |  | TH32A01a | A | *Cirsium* | France |
|  |  |  |  | TH32A02 | A | *Cirsium* | France |
|  |  |  |  | TH32A05 | A | *Cirsium* | France |
|  |  |  |  | TH33A01 | A | *Silybum & Carduus* | France |
|  |  |  |  | TH34A01 | A | *Carduus* | France |
|  |  |  |  | TH34A02a | A | *Carduus* | France |
|  |  |  |  | TH34A03 | A | *Carduus* | France |
|  |  |  |  | TH35A01 | A | *Cirsium* | France |
|  |  |  |  | TH35A02 | A | *Cirsium* | France |
|  |  |  |  | TH35A04 | A | *Cirsium* | France |
|  |  |  |  | TH36A01a | A | *Silybum* | France |
|  |  |  |  | TH37A01 | A | *Cirsium* | Georgia |
|  |  |  |  | TH37A02 | A | *Cirsium* | Georgia |
|  |  |  |  | TH39A01a | L | *Onopordum* | New Zealand |
|  |  |  |  | TH39A02a | L | *Onopordum* | New Zealand |
|  |  |  |  | TH39A03a | L | *Onopordum* | New Zealand |
|  |  |  |  | TH40A01a | L | *Cirsium* | New Zealand |
|  |  |  |  | TH40A02a | L | *Cirsium* | New Zealand |
|  |  |  |  | TH40A03a | L | *Cirsium* | New Zealand |
|  |  |  |  | TH41A01a | L | *Carduus* | New Zealand |
|  |  |  |  | TH41A02a | L | *Carduus* | New Zealand |
|  |  |  |  | TH41A03 | L | *Carduus* | New Zealand |
|  |  |  |  | TH50A01a | A | *Carduus* | Turkey |
|  |  |  |  | TH50A03 | A | *Carduus* | Turkey |
|  |  |  |  | TM01A05 | A | *Carduus* | Australia |
| H05 | LN849450 | 3 | 760 | TB15A02a | A | *Onopordum* | Spain |
|  |  |  |  | TH05A02b | A | *Carduus* | Italy |
|  |  |  |  | TH13A04a | A | *Carduus* | Italy |
| H06 | LN849451 | 15 | 760 | TB15A02b | A | *Onopordum* | Spain |
|  |  |  |  | TB15A03 | A | *Onopordum* | Spain |
|  |  |  |  | TH05A02a | A | *Carduus* | Italy |
|  |  |  |  | TH13A04b | A | *Carduus* | Italy |
|  |  |  |  | TH15A01 | A | *Carduus* | Italy |
|  |  |  |  | TH15A02 | A | *Carduus* | Italy |
|  |  |  |  | TH25A01 | A | *Carduus* | Spain |
|  |  |  |  | TH26B01 | A | *Carduus* | Spain |
|  |  |  |  | TH27A01 | A | *Carduus* | Spain |
|  |  |  |  | TH29A02 | A | *Carduus* | Spain |
|  |  |  |  | TH29A03 | A | *Carduus* | Spain |
|  |  |  |  | TH29A05 | A | *Carduus* | Spain |
|  |  |  |  | TH38A03 | A | *Cirsium* | Italy |
|  |  |  |  | TM02A03 | A | *Carduus* | USA |
|  |  |  |  | TM02C02 | A | *Carduus* | USA |
| H07 | LN849452 | 17 | 760 | TB24A02b | A | Unknown | Spain |
|  |  |  |  | TH23A01b | A | *Carduus* | Germany |
|  |  |  |  | TH24A01b | A | *Carduus* | Germany |
|  |  |  |  | TH32A01b | A | *Cirsium* | France |
|  |  |  |  | TH34A02b | A | *Carduus* | France |
|  |  |  |  | TH34A05 | A | *Carduus* | France |
|  |  |  |  | TH36A01b | A | *Silybum* | France |
|  |  |  |  | TH39A01b | A | *Onopordum* | New Zealand |
|  |  |  |  | TH39A02b | A | *Onopordum* | New Zealand |
|  |  |  |  | TH39A03b | A | *Onopordum* | New Zealand |
|  |  |  |  | TH40A01b | A | *Cirsium* | New Zealand |
|  |  |  |  | TH40A02b | A | *Cirsium* | New Zealand |
|  |  |  |  | TH40A03b | A | *Cirsium* | New Zealand |
|  |  |  |  | TH41A01b | A | *Carduus* | New Zealand |
|  |  |  |  | TH41A02b | A | *Carduus* | New Zealand |
|  |  |  |  | TH50A01b | A | *Carduus* | Turkey |
| H08 | LN849453 | 8 | 760 | TH05A03 | A | *Carduus* | Italy |
|  |  |  |  | TH05B01a | A | *Carduus* | Italy |
|  |  |  |  | TH13A01 | A | *Carduus* | Italy |
|  |  |  |  | TH13A03 | A | *Carduus* | Italy |
|  |  |  |  | TH38A01 | A | *Cirsium* | Italy |
|  |  |  |  | TH38A02 | A | *Cirsium* | Italy |
|  |  |  |  | TM02A08 | A | *Carduus* | USA |
|  |  |  |  | TM02A09 | A | *Carduus* | USA |
| H09 | LN849454 | 1 | 760 | TH05B01b | A | *Carduus* | Italy |
| H10 | LN849455 | 1 | 760 | TH32A04 | A | *Cirsium* | France |