

Supplementary File 3: Gene PAV of the flowering time regulators *FLC*, *PHYA* and *GA3ox1* in the ERANET-ASSYST *B. napus* diversity set. Swede lines are shown in red.

| Gene name | Gene ID from public Darmor- <i>bzh</i> reference (v4.0) | Gene ID from Darmor- <i>bzh</i> assembly (v8.1) used as basis for this pangenome study |
|-------------------------|---|--|
| Bna.PHYA.chrA09 | BnaA09g48410D | BnaA09g49460.1D2 |
| Bna.GA3ox.chrA09.random | BnaA09g57140D | BnaA09g49330.1D2 |
| Bna.FLC.chrA10 | BnaA10g22080D | BnaA10g21650.1D2 |
| Bna.CCR1.chrC08 | BnaC08g38580D | BnaC08g34000.1D2 |
| Bna.GA3ox.chrC08 | BnaC08g38810D | BnaC08g34160.1D2 |
| Bna.PHYA.chrC08 | BnaC08g42660D | BnaC08g37880.1D2 |
| germin like protein | BnaC08g42670D | BnaC08g37890.1D2 |
| Bna.FLC.chrC09 | BnaC09g46500D | BnaC09g41360.1D2 |
| Bna.FLC.chrC09 | BnaC09g46540D | BnaC09g41390.1D2 |

| Assyst name | BnaA09g49460.1D2 | BnaA09g49330.1D2 | BnaA10g21650.1D2 | BnaC08g34000.1D2 | BnaC08g34160.1D2 | BnaC08g37880.1D2 |
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| ASSYST419 | PRESENT | PRESENT | PRESENT | LOST | LOST | LOST |
| ASSYST424 | PRESENT | PRESENT | PRESENT | LOST | LOST | LOST |
| ASSYST427 | PRESENT | PRESENT | PRESENT | PRESENT | LOST | LOST |
| ASSYST430 | PRESENT | PRESENT | PRESENT | LOST | LOST | LOST |
| ASSYST431 | PRESENT | PRESENT | PRESENT | LOST | LOST | LOST |
| ASSYST433 | PRESENT | PRESENT | PRESENT | LOST | LOST | LOST |
| ASSYST436 | PRESENT | PRESENT | PRESENT | LOST | LOST | LOST |
| ASSYST447 | PRESENT | PRESENT | PRESENT | LOST | LOST | LOST |
| ASSYST453 | PRESENT | PRESENT | PRESENT | LOST | LOST | LOST |
| ASSYST454 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
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| ASSYST002 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| ASSYST003 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
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| ASSYST203 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
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| ASSYST230 | PRESENT | PRESENT | PRESENT | PRESENT | LOST | LOST |
| ASSYST232 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
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| ASSYST275 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
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| ASSYST318 | LOST | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| ASSYST320 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| ASSYST321 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | LOST |
| ASSYST322 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| ASSYST323 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
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| ASSYST328 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
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| ASSYST371 | LOST | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
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| ASSYST397 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| ASSYST398 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| ASSYST399 | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT | PRESENT |
| ASSYST446 | PRESENT | PRESENT | PRESENT | LOST | LOST | LOST |
| Assyst name | BnaC09g41390.1D2 | BnaC09g41360.1D2 | BnaC08g37890.1D2 | | | |
| ASSYST419 | LOST | LOST | LOST | | | |
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| ASSYST316 | LOST | PRESENT | PRESENT |
| ASSYST317 | PRESENT | PRESENT | PRESENT |
| ASSYST318 | PRESENT | PRESENT | PRESENT |
| ASSYST320 | PRESENT | PRESENT | PRESENT |
| ASSYST321 | PRESENT | PRESENT | LOST |
| ASSYST322 | PRESENT | PRESENT | PRESENT |
| ASSYST323 | PRESENT | PRESENT | PRESENT |
| ASSYST325 | PRESENT | PRESENT | PRESENT |

| | | | |
|-----------|---------|---------|---------|
| ASSYST327 | PRESENT | PRESENT | PRESENT |
| ASSYST328 | PRESENT | PRESENT | PRESENT |
| ASSYST329 | PRESENT | PRESENT | PRESENT |
| ASSYST330 | PRESENT | PRESENT | PRESENT |
| ASSYST333 | PRESENT | PRESENT | PRESENT |
| ASSYST334 | PRESENT | PRESENT | PRESENT |
| ASSYST335 | PRESENT | PRESENT | PRESENT |
| ASSYST339 | PRESENT | PRESENT | PRESENT |
| ASSYST340 | PRESENT | PRESENT | PRESENT |
| ASSYST341 | PRESENT | PRESENT | PRESENT |
| ASSYST342 | PRESENT | PRESENT | PRESENT |
| ASSYST344 | PRESENT | PRESENT | PRESENT |
| ASSYST345 | PRESENT | PRESENT | PRESENT |
| ASSYST346 | PRESENT | PRESENT | PRESENT |
| ASSYST347 | PRESENT | PRESENT | PRESENT |
| ASSYST348 | PRESENT | PRESENT | PRESENT |
| ASSYST349 | PRESENT | PRESENT | PRESENT |
| ASSYST350 | PRESENT | PRESENT | PRESENT |
| ASSYST352 | PRESENT | PRESENT | PRESENT |
| ASSYST354 | PRESENT | PRESENT | PRESENT |
| ASSYST355 | PRESENT | PRESENT | PRESENT |
| ASSYST357 | PRESENT | PRESENT | PRESENT |
| ASSYST359 | PRESENT | PRESENT | PRESENT |
| ASSYST360 | PRESENT | PRESENT | PRESENT |
| ASSYST361 | PRESENT | PRESENT | PRESENT |
| ASSYST362 | PRESENT | PRESENT | PRESENT |
| ASSYST363 | PRESENT | PRESENT | LOST |
| ASSYST364 | PRESENT | PRESENT | PRESENT |
| ASSYST365 | PRESENT | PRESENT | LOST |
| ASSYST366 | PRESENT | PRESENT | PRESENT |
| ASSYST367 | PRESENT | PRESENT | PRESENT |
| ASSYST368 | PRESENT | PRESENT | PRESENT |
| ASSYST369 | PRESENT | PRESENT | PRESENT |
| ASSYST371 | PRESENT | PRESENT | PRESENT |
| ASSYST372 | LOST | LOST | PRESENT |

| | | | |
|-----------|---------|---------|---------|
| ASSYST373 | PRESENT | PRESENT | PRESENT |
| ASSYST374 | PRESENT | PRESENT | PRESENT |
| ASSYST377 | PRESENT | PRESENT | PRESENT |
| ASSYST378 | PRESENT | PRESENT | PRESENT |
| ASSYST379 | PRESENT | PRESENT | PRESENT |
| ASSYST380 | PRESENT | PRESENT | PRESENT |
| ASSYST381 | PRESENT | PRESENT | PRESENT |
| ASSYST382 | PRESENT | PRESENT | PRESENT |
| ASSYST383 | PRESENT | PRESENT | PRESENT |
| ASSYST384 | LOST | LOST | PRESENT |
| ASSYST385 | PRESENT | PRESENT | PRESENT |
| ASSYST386 | PRESENT | PRESENT | PRESENT |
| ASSYST389 | PRESENT | PRESENT | PRESENT |
| ASSYST390 | PRESENT | PRESENT | PRESENT |
| ASSYST391 | PRESENT | PRESENT | PRESENT |
| ASSYST392 | PRESENT | PRESENT | PRESENT |
| ASSYST393 | PRESENT | PRESENT | PRESENT |
| ASSYST394 | PRESENT | PRESENT | PRESENT |
| ASSYST397 | PRESENT | PRESENT | PRESENT |
| ASSYST398 | PRESENT | PRESENT | PRESENT |
| ASSYST399 | PRESENT | PRESENT | PRESENT |
| ASSYST446 | LOST | LOST | LOST |