**Supplemental Figure**

**Supplementary Figure 1. Yellow Wonder *de novo* assembly corroborates with previous phenotype-linked genetic lesions.** Blast results showing the alignment in the region of interest. Bold nucleotides highlight the genetic variants underlying specific phenotypes.

1. **Myb10 (FvYW\_1g22020)**

CFRA2339 (red fruit) ATGGAGGGTTATTTCGGTGTGAGAAAAGGTGCAT**G**GACTAAG

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FvYW\_v1.0 (yellow fruit) ATGGAGGGTTATTTCGGTGTGAGAAAAGGTGCAT**C**GACTAAG

1. **Ga20Ox4 (FvYW\_2g35050)**

FvH4\_v4.0 (runnering) GATGACCAGAGCACCACGGATGGG**TTTCACACA**TTGCCATTTGTTGTCGACAAAAACTTC

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FvYW\_v1.0 (runnerless) GATGACCAGAGCACCACGGATGGG**---------**TTGCCATTTGTTGTCGACAAAAACTTC

1. **TFL1 (FvYW\_3g24700)**

Seasonal flowering CAACATGCAGATGATCTATGAGA**GT**TTCATTTATTTAACTGGCACGTACAAGTG

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FvYW\_v1.0 (ever flowering) CAACATGCAGATGATCTATGAGA**--**TTCATTTATTTAACTGGCACGTACAAGTG