

Supplemental Material for: Identification, Characterization and Field Testing of *Brassica napus* Mutants Producing High-Oleic Oils

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Figure S1. Amino acid sequences of three isozymes of FAD2 from *Brassica napus*.

BnFAD2 . A5

MGAGGRMQVSPPSKKSETDNIKRVPCETPPFTVGGELKKAIPPHCFKRSIP
RSFSYLIWDIIIIASCFYYVATTYFPLLPHPLSYFAWPLYWACQGCVLTGV
WVIAHECGHHAFFSDYQWLDDTVGLIFHSFLLVPYFSWKYSHRRHHSNTGS
LERDEVFVPPKKKSDIKWYGKYLNNPLGRTVMLTVQFTLGWPLYLAFNVSG
RPYDGGFACHFHPNAPIYNDRELRQIYISDAGILAVCYGLYRYAAVQGVA
SMVCFYGVPLLIVNGFLVLITYLQHTHPSLPHYDSSEWDWLRGALATVDR
DYGILNKVFHNITDTHVAHHLFSTTPHYHAMEATKAIKPILGEYYQFDGT
PVVKAMWREAKECIYVEPDRQGEKKGVFVWYNNKL*

BnFAD2 . C5

MGAGGRMQVSPPSKKSETDTIKRVPCETPPFTVGGELKKAIPPHCFKRSIP
RSFSYLIWDIIIIASCFYYVATTYFPLLPHPLSYFAWPLYWACQGCVLTGV
WVIAHECGHHAFFSDYQWLDDTVGLIFHSFLLVPYFSWKYSHRRHHSNTGS
LERDEVFVPPKKKSDIKWYGKYLNNPLGRTVMLTVQFTLGWPLYLAFNVSG
RPYDGGFACHFHPNAPIYNDRELRQIYISDAGILAVCYGLYRYAAAQGVA
SMVCFYGVPLLIVNGFLVLITYLQHTHPSLPHYDSSEWDWLRGALATVDR
DYGILNKVFHNITDTHVAHHLFSTMPHYHAMEATKAIKPILGEYYQFDGT
PVVKAMWREAKECIYVEPDRQGEKKGVFVWYNNKL*

BnFAD2 . C1

MGAGGRMQVSPSSPETNTLKRVPCEPFTLGDLLKKAIPPHCFKRSIP
RSFSYLLFDIIIISSSLYHLSTAYFPLLPHPLPYLAWPLYWACQGCVLTGL
WVIAHECGHHAFFSDHQLLDDAVGLVHFSFLLVPYFSWKYSHRRHHSNTGS
LERDEVFVPPKKKSDVKWYGKYLNNPLGRTVMLTVQFTLGWPLYLAFNVSG
RPYSDGFACHFHPNAPIYNDRELRQIYISDAGVLSVCYGLYRYAGSRGVA
SMVCVYGVPLMIVNCFVLITYLQHTHPSLPHYDSSEWDWLRGALATVDR
DYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGEYYQFDGT
PVVKAMWREAKECIYVEPDRQGEKKGVFVWYNNKL*