

A

```
C_sativa_FAD2_A 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
C_microcarpa_FAD2_A 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
C_sativa_FAD2_B 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
C_microcarpa_FAD2_B 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
C_sativa_FAD2_C 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
C_microcarpa_FAD2_C 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
C_rubella_FAD2 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
C_hispida_FAD2 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
C_laxa_FAD2 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
C_rumelica_FAD2-1 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
C_rumelica_FAD2-2 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
A_lyrata_FAD2 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
A_thaliana_FAD2 1 MGAGGRMPVPSSSS..KKSETDAIKRVPCCKPPFTLGELKKAIPPOCFKRSIPRSFSYLIT
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H1

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C_sativa_FAD2_A 60 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
C_microcarpa_FAD2_A 60 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
C_sativa_FAD2_B 60 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
C_microcarpa_FAD2_B 61 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
C_sativa_FAD2_C 60 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
C_microcarpa_FAD2_C 60 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
C_rubella_FAD2 59 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
C_hispida_FAD2 60 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
C_laxa_FAD2 61 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
C_rumelica_FAD2-1 60 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
C_rumelica_FAD2-2 60 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
A_lyrata_FAD2 59 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
A_thaliana_FAD2 59 DIIIVASCFYYVATNYFSLLPQPLSYLAWPLYWACQGCVLGTGVWVIAHECGHAFSDYQWL
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H2

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C_sativa_FAD2_A 120 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
C_microcarpa_FAD2_A 120 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
C_sativa_FAD2_B 120 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
C_microcarpa_FAD2_B 121 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
C_sativa_FAD2_C 120 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
C_microcarpa_FAD2_C 120 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
C_rubella_FAD2 119 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
C_hispida_FAD2 120 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
C_laxa_FAD2 121 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
C_rumelica_FAD2-1 120 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
C_rumelica_FAD2-2 120 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
A_lyrata_FAD2 119 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
A_thaliana_FAD2 119 DDTVGLIFHSFLLVPYFSWKYSHRRHHNTGSLERDEVFVPKQSAIKWYGKYLNNPGR
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C_sativa_FAD2_A 180 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
C_microcarpa_FAD2_A 180 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
C_sativa_FAD2_B 180 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
C_microcarpa_FAD2_B 181 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
C_sativa_FAD2_C 180 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
C_microcarpa_FAD2_C 180 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
C_rubella_FAD2 179 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
C_hispida_FAD2 180 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
C_laxa_FAD2 181 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
C_rumelica_FAD2-1 180 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
C_rumelica_FAD2-2 180 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
A_lyrata_FAD2 179 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
A_thaliana_FAD2 179 IMMLTVQFVLGWPLYLAFNVSGRPYDGFACHFFPNAPIYNDRERLQIYLSDAGILAVCFG
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C_sativa_FAD2_A 240 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
C_microcarpa_FAD2_A 240 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
C_sativa_FAD2_B 240 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
C_microcarpa_FAD2_B 241 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
C_sativa_FAD2_C 240 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
C_microcarpa_FAD2_C 240 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
C_rubella_FAD2 239 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
C_hispida_FAD2 240 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
C_laxa_FAD2 241 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
C_rumelica_FAD2-1 240 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
C_rumelica_FAD2-2 240 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
A_lyrata_FAD2 239 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
A_thaliana_FAD2 239 LYRYAAAGQMASMICLYGVPLLIIVNAFLVLITYLQHTHPALPHYDSSWDWLRGALATVD
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H3

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C_sativa_FAD2_A 300 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
C_microcarpa_FAD2_A 300 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
C_sativa_FAD2_B 300 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
C_microcarpa_FAD2_B 301 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
C_sativa_FAD2_C 300 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
C_microcarpa_FAD2_C 300 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
C_rubella_FAD2 299 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
C_hispida_FAD2 300 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
C_laxa_FAD2 301 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
C_rumelica_FAD2-1 300 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
C_rumelica_FAD2-2 300 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
A_lyrata_FAD2 299 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
A_thaliana_FAD2 299 RDYGILNKVFHNITDTHVAHHLFSTMPHYNAMEATKAIKPILGDYYQFDGTPWYVAMYRE
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C_sativa_FAD2_A 360 AKECIYVEPDREGDKKGVYWYNNKL
C_microcarpa_FAD2_A 360 AKECIYVEPDREGDKKGVYWYNNKL
C_sativa_FAD2_B 360 AKECIYVEPDREGDKKGVYWYNNKL
C_microcarpa_FAD2_B 361 AKECIYVEPDREGDKKGVYWYNNKL
C_sativa_FAD2_C 360 AKECIYVEPDREGDKKGVYWYNNKL
C_microcarpa_FAD2_C 360 AKECIYVEPDREGDKKGVYWYNNKL
C_rubella_FAD2 359 AKECIYVEPDREGDKKGVYWYNNKL
C_hispida_FAD2 360 AKECIYVEPDREGDKKGVYWYNNKL
C_laxa_FAD2 361 AKECIYVEPDREGDKKGVYWYNNKL
C_rumelica_FAD2-1 360 AKECIYVEPDREGDKKGVYWYNNKL
C_rumelica_FAD2-2 360 AKECIYVEPDREGDKKGVYWYNNKL
A_lyrata_FAD2 359 AKECIYVEPDREGDKKGVYWYNNKL
A_thaliana_FAD2 359 AKECIYVEPDREGDKKGVYWYNNKL
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C_sativa_FAE1_A	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
C_microcarpa_FAE1_A	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
C_sativa_FAE1_B	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
C_microcarpa_FAE1_B	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
C_sativa_FAE1_C	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
C_microcarpa_FAE1_C	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
C_hispida_FAE1-1	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
C_hispida_FAE1-2	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
C_laxa_FAE1-1	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
C_laxa_FAE1-2	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
C_rumelica_FAE1-1	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
C_rumelica_FAE1-2	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
A_lyrata_FAE1	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF
A_thaliana_FAE1	1	MTSVNAKLLHYVLTNFFNCLFPLTALLAGKASRLTNDLHYFYSHQHNLITVILF

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C_sativa_FAE1_A      61  FTAAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
C_microcarpa_FAE1_A  61  FTAAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
C_sativa_FAE1_B      61  FTAAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
C_microcarpa_FAE1_B  61  FTAAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
C_sativa_FAE1_C      61  FTAAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
C_microcarpa_FAE1_C  61  FTAAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
C_hispida_FAE1-1     61  FTTAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
C_hispida_FAE1-2     61  FTTAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
C_laxa_FAE1-1        61  FTTAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
C_laxa_FAE1-2        61  FTAAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
C_rumelica_FAE1-1    61  FTAAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
C_rumelica_FAE1-2    61  FTTAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
A_lyrata_FAE1        61  FTTAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE
A_thaliana_FAE1      61  FTTAGLVLYIVTRPKPVYLVDSYCLPEPHLKVSVSRKMDIFQYIRKADTS.RNVACDDE

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C_sativa_FAE1_A	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
C_microcarpa_FAE1_A	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
C_sativa_FAE1_B	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
C_microcarpa_FAE1_B	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
C_sativa_FAE1_C	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
C_microcarpa_FAE1_C	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
C_hispida_FAE1-1	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
C_hispida_FAE1-2	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
C_laxa_FAE1-1	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
C_laxa_FAE1-2	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
C_rumelica_FAE1-1	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
C_rumelica_FAE1-2	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
A_lyrata_FAE1	120	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN
A_thaliana_FAE1	121	SSLDFLRKIQERSGLGDETSYFGLINVPVKPTFAASRETEQVIIGALEKLFENTKVN

C_sativa_FAE1_A	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
C_microcarpa_FAE1_A	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
C_sativa_FAE1_B	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
C_microcarpa_FAE1_B	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
C_sativa_FAE1_C	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
C_microcarpa_FAE1_C	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
C_hispida_FAE1-1	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
C_hispida_FAE1-2	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
C_laxa_FAE1-1	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
C_laxa_FAE1-2	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
C_rumelica_FAE1-1	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
C_rumelica_FAE1-2	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
A_lyrata_FAE1	180	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH
A_thaliana_FAE1	181	REIGILVNSSMFNFTPSLSAMVVNFTFKLRNISKFSFLGSMGCSAGVIAIDLAKOLLHVH

C_sativa_FAE1_A	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
C_microcarpa_FAE1_A	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
C_sativa_FAE1_B	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
C_microcarpa_FAE1_B	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
C_sativa_FAE1_C	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
C_microcarpa_FAE1_C	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
C_hispida_FAE1-1	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
C_hispida_FAE1-2	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
C_laxa_FAE1-1	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
C_laxa_FAE1-2	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
C_rumelica_FAE1-1	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
C_rumelica_FAE1-2	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
A_lyrata_FAE1	240	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF
A_thaliana_FAE1	241	KNTYALVSVSTENITGGIYAGENRSMVMVSNCLFRVGGAAILLNPKPGDRRSKYKCHTVF

C_sativa_FAE1_A	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
C_microcarpa_FAE1_A	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
C_sativa_FAE1_B	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
C_microcarpa_FAE1_B	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
C_sativa_FAE1_C	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
C_microcarpa_FAE1_C	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
C_hispida_FAE1-1	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
C_hispida_FAE1-2	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
C_laxa_FAE1-1	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
C_laxa_FAE1-2	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
C_rumelica_FAE1-1	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
C_rumelica_FAE1-2	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
A_lyrata_FAE1	300	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF
A_thaliana_FAE1	301	THTGADDSFRCVQGGDDESGKIGVLSKSDITVAGTALKNNIATGLPILPLSEKFLF

C_sativa_FAE1_A	360	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
C_microcarpa_FAE1_A	360	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
C_sativa_FAE1_B	360	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
C_microcarpa_FAE1_B	360	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
C_sativa_FAE1_C	360	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
C_microcarpa_FAE1_C	360	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
C_hispida_FAE1-1	360	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
C_hispida_FAE1-2	360	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
C_laxa_FAE1-1	360	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
C_laxa_FAE1-2	360	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
C_rumelica_FAE1-1	360	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
C_rumelica_FAE1-2	360	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
A_lyrata_FAE1	361	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH
A_thaliana_FAE1	361	VTFTAKLLDKDKIKHYVPDFKLAIDHFCIHAGGRAVIDVLEKSLGLSPIDVEASRSTLH

C_sativa_FAE1_A	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
C_microcarpa_FAE1__A	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
C_sativa_FAE1_B	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
C_microcarpa_FAE1_B	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
C_sativa_FAE1_C	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
C_microcarpa_FAE1_C	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
C_hispida_FAE1-1	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
C_hispida_FAE1-2	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
C_laxa_FAE1-1	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
C_laxa_FAE1-2	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
C_rumelica_FAE1-1	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
C_rumelica_FAE1-2	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
A_lyrata_FAE1	420	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE
A_thaliana_FAE1	421	RFGNTSSSSIWYELAYIEAKGRMKKGNNRAWQIALGSGFKCNSAVVVALCNVKASANS	PWE

C_sativa_FAE1_A	480	HCIDRYPVQIDSDSSKSETHVKNGRS
C_microcarpa_FAE1__A	480	HCIDRYPVQIDSDSSKSETHVKNGRS
C_sativa_FAE1_B	480	HCIDRYPVQIDSDSSKSETHVKNGRS
C_microcarpa_FAE1_B	480	HCIDRYPVQIDSDSSKSETHVKNGRS
C_sativa_FAE1_C	480	HCIDRYPVQIDSDSSKSETHVKNGRS
C_microcarpa_FAE1_C	480	HCIDRYPVQIDSDSSKSETHVKNGRS
C_hispida_FAE1-1	480	HCIDRYPVQIDSDSSKSETHVKNGRS
C_hispida_FAE1-2	480	HCIDRYPVQIDSDSSKSETHVKNGRS
C_laxa_FAE1-1	480	HCIDRYPVQIDSDSSKSETHVKNGRS
C_laxa_FAE1-2	480	HCIDRYPVQIDSDSSKSETHVKNGRS
C_rumelica_FAE1-1	480	HCIDRYPVQIDSDSSKSETHVKNGRS
C_rumelica_FAE1-2	480	HCIDRYPVQIDSDSSKSETHVKNGRS
A_lyrata_FAE1	480	HCIDRYPVQIDSDSSKSETHVKNGRS
A_thaliana_FAE1	481	HCIDRYPVQIDSDSSKSETHVKNGRS