Supporting information

Supplementary Data Set S1. CDS of ten homologous genes of the eIF5A family in *N. tabacum.*

>eIF5A-1

ATGTCGGACGAAGAACACCATTTTGAATCAAAGGCCGATGCCGGAGCATC
AAAGACATATCCTCAACAAGCTGGTACTATTCGTAAGAATGGTCATATCGTC
ATAAAAAACCGCCCTTGCAAGGTAGTTGAAGTTTCCACTTCCAAGACAGG
CAAGCACGGTCATGCTAAATGCCACTTTGTGGCTATTGACATTTTCACTGGA
AAGAAGCTTGAAGATATTGTTCCCTCTTCTCACAACTGTGATGTTCCTCATG
TGAATAGGACTGACTATCAGCTTATTGATATCTCTGAGGATGGATTTGTGAG
TCTGTTGACTGAAAATGGTAACACCAAGGATGACTTGAGGCTCCCAACTGA
CGATAATCTTCTGGCCCTGATCAAAGATGGTTTTGCTGAGGGGAAGGACCT
GGTTCTGTCAGTGATGTCTGCCATGGGAGAGGAGCAGATTTGTGGTATCAA
GGACGTTGGCCCCAAGTAG

>eIF5A-2

ATGTCGGACGAAGAGCACCACTTTGAATCAAAGGCCGACGCCGGAGCTTC
AAAGACCTATCCTCAGCAGGCTGGTACTATTCGTAAGAATGGTCATATCGTC
ATCAAAAACCGTCCTTGCAAGGTAGTTGAAGTTTCCACTTCCAAGACAGGC
AAGCACGGTCATGCTAAATGCCATTTTGTGGCGATTGACATTTTCACTGGAA
AGAAGCTTGAAGATATTGTTCCCTCTTCTCACAATTGTGATGTTCCTCATGT
GAATAGGACTGACTATCAGCTTATTGATATCTCTGAGGATGGATTTGTGAGT
CTGTTGACTGAAAATGGTAACACCAAGGATGACTTGAGGCTCCCAACTGA
CGATAGTCTTCTGTCCCTGATCAAAGATGGTTTTGCTGAGGGGAAGGACCT
GGTTCTGTCAGTGATGTCTGCCATGGGAGAGGAGCAGATTTGTGGTATCAA
GGACATTGGCCCCAAGTAG

>eIF5A-3

ATGTCGGACGAGGAGCACCAGTTTGAGTCAAAGGCCGATGCCGGTGCATC

TAAAACTTACCCTCAACAAGCTGGTACTATCCGTAAGAACGGTCACATCGT

CATCAAAGGCCGTCCCTGCAAGGTTGTGGAAGTCTCTACATCCGAAACTGG

AAAGCATGGTCATGCAAAATGTCATTTTGTCGCTATAGACATCTTCACTGGA

AAGAAGCTTGAGGATATTGTTCCATCTTCACACAATTGTGATGTGCCCCATG

TTAATCGTACAGATTATCAGCTTATTGACATCTCTGAAGATGGATTTGTGAGT

CTGCTCACCGAGAATGGTAACACCAAGGATGACCTTAGGCTGCCTACTGAT

GACAACCTCCTTACACAGATCAAGGATGGGTTTGCTGAGGGAAAAGACCT

TGTCGTGTCTGTCATGTCGGCCATGGGTGAGGAGCAGATTTGTGCCCTGAA

GGATATTGGTCCCAAGTAA

>eIF5A-4

ATGTCTGATGAAGAACACCATTTTGAGTCAAAAGCAGATGCTGGTGCCTCT

AAAACTTACCCTCAACAAGCTGGTACCATTCGCAAAAATGGTTATATAGTTA

TTAAAGGCAGACCTTGCAAGGTTGTTGAGGTCTCCACTTCAAAAACTGGC

AAGCACGGACATGCAAAATGTCACTTTGTGGCAATTGATATTTTCAATGGA

AAGAAGCTTGAAGATATTGTTCCTTCCTCCCACAACTGTGATGTGCCCCATG

TTAATCGTACCGACTATCAGCTGATTGACATCTCTGAAGATGGTTTTGTGTC

TCTTCTTACTGAAAATGGAAACACCAAAGATGACCTCAGGCTTCCCACCGA

TGAAAACCTGCTGAACCAGGTTAAAGGTGGATTTGAGGAAGGAAAGGATC

TTGTGTTGTCTGTGATGTCTGCAATGGGTGAAGAGCAGATTGCTGCTGTGA

AGGACATTGGTACCAAGAACTAA

>eIF5A-5

ATGTCGGACGAAGAACACCATTTTGAGTCAAAGGCAGATGCAGGCGCCTC

CAAAACTTACCCTCAACAAGCTGGTACTATCCGCAAAAATGGTTATATAGTC

ATCAAGGGCCGTCCCTGCAAGGTTGTTGAGGTCTCCACTTCAAAAACTGG

CAAGCACGGACATGCTAAATGTCACTTTGTGGCAATTGACATTTTCAATGG

AAAGAAACTTGAAGATATCGTTCCTTCCTCCCACAACTGTGATGTGCCACA

TGTCAATCGTACAGACTATCAGCTGATTGACATCTCTGAAGATGGTTTTGTC

TCCCTTCTTACTGAAAGTGGAAACACCAAGGATGACCTCCGTCTCCCCACC

GATGAAGCTCTGCTGAAGCAGGTTAAAGATGGGTTTCAGGAAGGAAAGGA

TCTTGTGGTGTCTGTTATGTCTGCAATGGGCGAAGAGCAGATTAATGCCGTT

AAGGACATTGGTACCAAGAACTAG

>eIF5A-6

ATGTCGGACGAGGAGCATCAGTTTGAGTCAAAGGCCGACGCCGGAGCTTC

GAAGACTTATCCTCAACAAGCTGGTACTATTCGTAAGAACGGTTACATTGTC

ATCAAAGCCCGCCCTTGCAAGGTCGTGGAAGTGTCTACTTCCAAGACTGGC

AAGCACGGACATGCCAAATGTCACTTTGTTGCAATTGATATCTTCACTGGCA

AGAAGCTCGAGGATATCGTTCCCTCTTCACACAATTGTGATGTCCCCCATGT

TAATCGTACAGATTACCAACTCATTGACATCTCTGAGGATGGATTTGTGAGT

CTACTCACTGAAAATGGTAGTACCAAGGATGACCTCAGGCTTCCAACAGAT

GAGAATCTTCTCACGCAGATCAAGGATGGATTTGCTGAGGGCAAAGACCTT

GTTGTGTCTGTCATGTCTGCCATGGGTGAGGAGCAGATTTGTGCACTGAAG

GATATTGGTCCAAAGTAA

>eIF5A-7

ATGTCTGATGAAGAACACCATTTTGAGTCAAAAGCAGATGCTGGTGCCTCT

AAAACTTATCCTCAACAAGCTGGTACCATTCGTAAAAATGGTTATATAGTTA

TTAAAGGCAGACCCTGCAAGGTTGTTGAGGTCTCCACTTCAAAAACTGGC

AAGCACGGACATGCAAAATGTCACTTTGTAGCAATTGATATTTTCAATGGA

AAGAAGCTTGAAGATATCGTTCCTTCCTCCCACAACTGTGATGTGCCCCAT

GTTAATCGTACCGACTATCAGCTGATTGACATCTCTGAAGATGGTTTTGTGT

CTCTTCTTACTGAAAATGGAAACACCAAAGACGACCTCAGGCTTCCCACCG

ATGAAGCCCTGCTGAGCCAGGTTAAAGGTGGATTTGAGGAAGGAAAGGAT

CTTGTGTTGTCTGTGATGTCTGCAATGGGTGAAGAGCAGATTGCCGCTGTT

AAGGACATTGGTACCAAGAACTAG

>eIF5A-8

ATGTCGGACGAAGAGCATCATTTTGAGTCGAAGGCAGATGCAGGCGCCTC
CAAAACTTACCCTCAACAAGCTGGTACTATCCGCAAAAATGGTTATATAGTC
ATCAAAGGCCGCCCCTGCAAGGTTGTTGAGGTCTCCACTTCAAAAACTGG
CAAGCACGGACATGCTAAATGTCACTTTGTGGCAATTGACATTTTCAATGG
AAAGAAACTTGAAGATATCGTTCCTTCCTCCCACAACTGTGATGTGCCACA
TGTCAATCGTACAGACTATCAGCTGATTGACATCTCTGAAGATGGTTTTGTC
TCCCTTCTTACTGAAAGTGGAAACACCAAGGATGATCTCCGGCTTCCCACT
GATGAGGCTCTGCTGAAGCAGGTTAAAGATGGGTTTCAGGAAGGAAAGGA
TCTTGTGCTGTCTGTTATGTCTGCAATGGGCGAAGAGCAGATTAATGCCGTT
AAGGACATTGGTACCAAGAACTAG

>eIF5A-9

ATGTCGGACGAGGAGCACCAATTTGAGTCAAAGGCAGATGCCGGTGCATC
TAAAACTTACCCTCAACAAGCTGGTACTATCCGTAAGAACGGTCATATCGTC
ATCAAAGGCCGTCCCTGCAAGGTTGTGGAAGTCTCTACATCCAAAACTGGA
AAGCACGGTCATGCAAAATGTCATTTTGTCGCTATTGACATCTTCACTGGAA
AGAAGCTTGAGGATATTGTTCCCTCTTCACACAATTGTGATGTGCCCCATGT
TAATCGTACAGATTATCAGCTTATTGACATCTCTGAAGATGGATTTGTGAGT
CTGCTCACTGAGAATGGTAACACCAAGGATGACCTTAGGCTTCCTACTGAT
GACAACCTCCTTACACAGATCAAGGATGGTTTTGCTGAGGGAAAAGACCTT
GTTGTGTCTGTCATGTCAGCCATGGGTGAGGAGCAGATTTGTGCCCTGAAG
GATATTGGTCCCAAGTAA

>eIF5A-10

ATGTCGGACGAGGAGCATCAGTTTGAGTCAAAGGCCGACGCCGGAGCTTC
GAAGACTTATCCTCAACAAGCTGGTACTATTCGTAAGAACGGTTACATTGTC
ATCAAAGCCCGCCCTTGCAAGGTCGTGGAAGTGTCTACTTCCAAGACTGGC
AAGCACGGACATGCCAAATGTCACTTTGTTGCAATTGATATCTTCACTGGCA

AGAAGCTCGAGGATATCGTTCCCTCTTCACACAATTGTGATGTCCCCCATGT

TAATCGTACAGATTACCAACTCATTGACATCTCTGAGGATGGATTTGTGAGT

CTACTCACTGAAAATGGTAGTACCAAGGATGACCTCAGGCTTCCAACAGAT

GAGAATCTTCTCACGCAGATCAAGGATGGATTTGCTGAGGGCAAAGACCTT

GTTGTGTCTGTCATGTCTGCCATGGGTGAGGAGCAGATTTGTGCACTGAAG

GATATTGGTCCAAAGTAA

Supplementary Data Set S2. The CDS sequences of the eIF5A of other 20 plant species

>*Nicotiana benthamiana* eIF5A

ATGTCTGACGAAGAACACCATTTTGAGTCCAAAGCTGATGCTGGTGCTTCA
AAAACTTACCCACAACAAGCAGGCACTATTCGCAAGAATGGTTATATAGTT
ATCAAAGGAAGACCCTGCAAGGTTGTTGAGGTCTCCACTTCCAAAACTGG
CAAGCACGGACATGCAAAATGTCACTTTGTGGCAATTGACATTTTCAATGG
AAAGAAGCTTGAAGATATTGTTCCTTCATCTCACAATTGTGATGTGCCACAT
GTCAACCGTACAGACTATCAGCTGATTGACATCTCTGAAGATGGTTTTGTGT
CTCTTCTTACTGAAAATGGAAACACCAAAGATGACCTCAGGCTTCCCACCG
ATGACACCCTGCTGAGCCAGGTTAAAGGTGGATTTGAGGAAGGAAAGGAT
CTCGTGCTGTCGGTGATGTCTGCAATGGGTGAAGAACAGATTTGTGCTGTG
AAGGACATTGGCAAGAACTAG

>*Capsicum annuum* eIF5A

ATGTCTGACGAAGAACACCATTTTGAGTCCAAAGCTGATGCTGGTGCTTCA
AAAACTTACCCACAACAAGCAGGCACTATTCGCAAGAATGGTTATATAGTT
ATCAAAGGAAGACCCTGCAAGGTTGTTGAGGTCTCCACTTCCAAAACTGG
CAAGCACGGACATGCAAAATGTCACTTTGTGGCAATTGACATTTTCAATGG
AAAGAAGCTTGAAGATATTGTTCCTTCATCTCACAATTGTGATGTGCCACAT
GTCAACCGTACAGACTATCAGCTGATTGACATCTCTGAAGATGGTTTTGTGT
CTCTTCTTACTGAAAATGGAAACACCAAAGATGACCTCAGGCTTCCCACCG
ATGACACCCTGCTGAGCCAGGTTAAAGGTGGATTTGAGGAAGGAAAGGAT
CTCGTGCTGTCGGTGATGTCTGCAATGGGTGAAGAACAGATTTGTGCTGTG
AAGGACATTGGCAAGAACTAG

>*Solanum verrucosum* eIF5A

140 ATGTCTGATGAAGAACACCATTTTGAGTCCAAAGCTGATGCTGGTGCCTCA

141 AAAACTTACCCTCAACAAGCTGGTACTATTCGCAAGAATGGTTATATAGTTA

142 TCAAAGGCAGACCTTGCAAGGTTGTTGAGGTCTCCACTTCCAAAACTGGC

143 AAGCACGGACATGCAAAATGTCACTTTGTGGCAATCGACATTTTCAATGGA

144 AAGAAGCTTGAAGATATTGTTCCTTCATCCCACAATTGTGATGTGCCACATG

145 TCAATCGTACTGACTATCAACTGATTGACATCTCTGAAGATGGTTTTGTGTC

146 TCTTCTTACTGAAAATGGAAACACCAAAGATGACCTCAGACTTCCCACCGA

147 TGACGCCCTGTTGACCCAGGTTAAAGGTGGATTTGAGGAAGGAAAGGATC

148 TCGTTCTGTCTGTGATGTCTGCAATGGGTGAAGAGCAGATCTGTGCTGTGA

149 AGGACATTGG

150 >*Solanum lycopersicum* eIF5A

151 ATGTCTGATGAAGAACACCATTTTGAGTCCAAAGCTGATGCTGGTGCCTCA

152 AAAACTTACCCTCAACAAGCTGGTACTATTCGCAAGAATGGTTATATAGTTA

153 TCAAAGGCAGACCTTGCAAGGTTGTTGAGGTCTCCACTTCCAAAACTGGC

154 AAGCATGGACATGCAAAATGTCACTTTGTGGCAATCGACATTTTCAATGCA

155 AAAAAGCTTGAAGATATTGTTCCTTCATCCCACAATTGTGATGTGCCACATG

156 TCAATCGTACTGACTATCAGCTGATTGACATATCTGAAGATGGTTTTGTGTC

157 TCTTCTTACTGAAAATGGAAACACCAAAGACGACCTCAGACTTCCCACCG

158 ATGACACCCTGTTGAACCAGGTTAAAGGTGGATTTGAGGAAGGAAAGGAT

159 CTCGTTCTGTCTGTGATGTCTGCAATGGGTGAAGAGCAGATCTGTGCTGTG

160 AAGGACATTGG

161 >*Nicotiana tabacum* eIF5A

162 ATGTCGGACGAAGAACACCATTTTGAGTCAAAGGCAGATGCAGGCGCCTC

163 CAAAACTTACCCTCAACAAGCTGGTACTATCCGCAAAAATGGTTATATAGTC

164 ATCAAGGGCCGTCCCTGCAAGGTTGTTGAGGTCTCCACTTCAAAAACTGG

165 CAAGCACGGACATGCTAAATGTCACTTTGTGGCAATTGACATTTTCAATGG

166 AAAGAAACTTGAAGATATCGTTCCTTCCTCCCACAACTGTGATGTGCCACA

TGTCAATCGTACAGACTATCAGCTGATTGACATCTCTGAAGATGGTTTTGTC

TCCCTTCTTACTGAAAGTGGAAACACCAAGGATGACCTCCGTCTCCCCACC

GATGAAGCTCTGCTGAAGCAGGTTAAAGATGGGTTTCAGGAAGGAAAGGA

TCTTGTGGTGTCTGTTATGTCTGCAATGGGCGAAGAGCAGATTAATGCCGTT

AAGGACATTGGTACCAAGAACTAG

>*Nicotiana attenuata* eIF5A

ATGTCTGATGAAGAACACCATTTTGAGTCAAAAGCTGATGCTGGTGCCTCT

AAAACTTACCCTCAACAAGCTGGTACCATTCGTAAAAATGGTTATATAGTTA

TTAAAGGCAGACCCTGCAAGGTTGTTGAGGTCTCCACTTCAAAAACTGGC

AAGCACGGACATGCAAAATGTCACTTTGTGGCAATTGATATTTTCAATGGA

AAGAAGCTTGAAGATATTGTTCCTTCCTCCCACAACTGTGATGTGCCCCATG

TTAATCGTACCGACTATCAGCTGATTGACATCTCTGAAGATGGTTTTGTGTC

TCTTCTTACTGAAAATGGAAACACCAAAGACGACCTCAGGCTTCCCACCG

ATGAAGCCCTGCTGAACCAGGTTAAAGGTGGATTTGAGGAAGGAAAGGAT

CTTGTGTTGTCTGTGATGTCTGCAATGGGCGAAGAGCAGATTGCCGCTGTT

AAGGACATTGG

>*Salvia miltiorrhiza* eIF5A

ATGTCGGACGAGGAGCATCAGTTCGAGTCGAAGGCCGACGCCGGTGCTTC

AAAAACCTACCCTCAGCAAGCTGGCACCATCCGCAAAAATGGGTACATAGT

TATCAAAGGGAGGCCTTGCAAGGTCGTTGAAGTCTCTACTTCGAAGACTGG

CAAGCATGGACATGCTAAGTGTCACTTTGTGGCGATCGACATATTTAATGGC

AAAAAGCTTGAAGACATTGTCCCGTCCTCCCACAACTGTGATGTGCCTCAT

GTCAATCGTACTGATTATCAACTGATTGACATCTCTGAAGATGGTTTTGTTT

CTCTTCTGACTGAAAATGGAAACACCAAAGATGATCTTAGGCTTCCAACTG

ATGACAGTCTGCTTGGTCCGATTAAAAGTGGGTTTGAGGAAGGAAAAGAC

CTCGTGGTGTCGGTCATGTCTGCAATGGGCGAAGAGCAGAT

>*Quercus robur* eIF5A

194 GAGGAGCACCACTTTGAGTCCAAGGCTGACGCTGGAGCCTCAAAGACTTA

195 CCCTCAGCAAGCTGGTACCATTCGCAAGAATGGCTATATTGTCATCAAGAA

196 CAGGCCTTGCAAGGTTGTTGAAGTTTCCACTTCAAAAACAGGAAAGCATG

197 GACATGCAAAGTGTCACTTTGTTGGAATCGACATATTTAATGGGAAGAAGC

198 TTGAAGATATTGTTCCTTCATCCCACAACTGTGATGTTCCTCATGTTAATCGT

199 ACTGACTACCAGTTGATTGATATCTCTGAAGATGGTTTTGTGAGTCTTCTAA

200 CTGAGAATGGAAACACCAAGGATGATCTGAGGCTTCCCACTGATGACAGT

201 CTGCTTAGCCAGATTAAAGATGGGTTTGCTGATGGAAAGGACCTTGTGGTG

202 ACTGTCATGTCTGCAATGGGAGAGGAGCAGATCTGTGCCCTTAAGGACATT

203 GGC

204 >*Salvia hispanica* eIF5A

205 ATGTCGGACGAGGAGCATCAGTTTGAGTCCAAGGCAGATGCCGGTGCCTC

206 CAAGACTTACCCTCAGCAAGCTGGAACCATCCGCAAAAATGGCCACCTAG

207 TCATCAAAGGGAGGCCTTGCAAGGTCGTTGAAGTCTCTACCTCAAAGACC

208 GGCAAGCACGGACACGCCAAGTGTCACTTTGTGGCAATTGACATATTTAAT

209 GGCAAAAAGCTTGAAGATATTGTGCCATCATCTCACAACTGTGATGTGCCT

210 CATGTCAACCGTACTGATTATCAACTGATTGACATCTCTGAAGATGGTTTTG

211 TTTCTCTTTTGACTGAAAATGGCAACACTAAAGATGATCTTAGGCTTCCAAC

212 TGATGAGACTCTGCTTGGCCAGATTAAAAGTGGGTTCGAGGAAGGAAAGG

213 ACCTTGTGGTGTCAGTCATGTCTGCAATGGGCGAAGAGCAGAT

214 >*Pyrus x bretschneideri* eIF5A

215 ATGTCGGACGAGGAGCACCAGTTCGAATCCAAAGCCGACGCCGGAGCATC

216 CAAGACCTACCCACAGCAGGCTGGTACCATCCGCAAGAATGGCTACATCGT

217 CATAAAGGCCAGGCCTTGCAAGGTTGTTGAAGTCTCCACTTCCAAAACTGG

218 AAAGCACGGTCACGCTAAGTGTCACTTTGTGGCAATTGATATCTTCAATGG

219 AAAGAAGCTTGAAGATATTGTTCCTTCGTCCCACAATTGTGATGTTCCCCAT

220 GTCAACCGTACTGACTATCAGCTGATTGATATCTCCGAGGATGGCTTTGTGA

GTCTCTTGACTGAAAATGGAAACACCAAGGATGATCTGAGGCTGCCCACT
GATGACAGTCTGCTTACCCAGATCAAGGACGGGTTTAATGATGGAAAGGAT
CTTGTGGTGACTGTCATGTCTGCCATGGGAGAGGAGCAGATATGTGCCCTT
AAGGACATTGG

>*Mangifera indica* eIF5A

ATGTCCGACGAGGAGCACCACTTTGAATCAAAGGCTGATGCTGGAGCCTC
CAAAACTTTTCCTCAACAAGCTGGAACCATCCGCAAGAATGGATATATTGT
CATCAAGAACCGTCCTTGCAAGGTGGTTGAAGTTTCCACTTCAAAGACCG
GAAAACATGGACATGCAAAGTGCCACTTTGTAGGAATCGATATCTTTACTG
GGAAGAAGCTTGAAGATATTGTTCCTTCATCCCACAACTGTGATGTTCCTCA
TGTTAATCGAACTGACTATCAGCTGATTGATATCTCTGAAGATGGTTTTGTG
AGTCTTCTCACTGAAAATGGGAGCACCAAGGATGATTTAAGGCTTCCCACT
GATGAAAACCTGCTTACCCAGATTAAAGATGGGTTTGCCGAAGGAAAGGA
CCTCGTGGTGTCTGTTATGTCTGCAATGGGAGAGGAGCAGATCTGTGCCCT
TAAGGACATTGG

>*Impatiens glandulifera* eIF5A

ATGTCTGACGAGGAGCATCACTTTGAGTCCAAGGCCGACGCCGGCGCATC
CAAAACTTATCCCCAACAGGCTGGAACCATCCGCAAGGGAGGTCACATATG
TATCAAAAACCGACCCTGCAAGGTGGTTGAAGTTTCTACCTCCAAAACTGG
GAAGCATGGACATGCTAAATGTCACTTTGTTGCCATTGATATCTTTACTGCA
AAGAAGCTTGAAGATATTGTTCCTTCTTCTCACAATTGTGACGTTCCTCATG
TTAACCGTACTGACTATCAGCTGATTGACATCTCTGAAGATGGTTTTGTCAG
TTTGCTCACTGAAAATGGAAACACCAAGGATGATTTGAGGCTTCCCACCGA
TGACGCTCTCCTTACCCAGATTAAAGATGGGTTTGGTGAGGGTAAAGATCT
GGTTGTGTCGGTTATGTCAGCCATGGGAGAGGAACAGATTTGTGCTCTTAA
GGATATCGGCCCGAAGAACTA

>*Populus nigra* eIF5A

248 ATGTCGGACGAGGAGCACCACTTTGAATCAAAGGCTGATGCAGGAGCCTC

249 CAAGACTTACCCTCAGCAAGCTGGTACTATCCGCAAGAATGGCTATATAGTC

250 ATCAAGAACCGTCCTTGCAAGGTTGTTGAGGTTTCCACCTCAAAGACAGG

251 CAAGCATGGACATGCTAAGTGCCACTTTGTGGGGATTGATATATTTAATGGG

252 AAAAAGCTTGAAGATATTGTTCCTTCATCTCACAACTGTGATGTTCCCCATG

253 TTAATCGTACTGATTATCAGCTGATTGATATCTCTGAAGATGGCTTTGTGAGT

254 CTTTTGACTGAAAATGGAAATACCAAGGATGATCTGAGGCTTCCCACTGAT

255 GATAGTCTGCTTACTCCGATTAAAGATGGGTTTGGTGAAGGAAAGGACCTT

256 GTGGTGACTGTCATGTCTGCCATGGGAGAGGAGCAGATCTGTGCCCTCAAG

257 GACATTGG

258 >*Vicia villosa* eIF5A

259 ATGTCCGACGAAGAGCACCAATTCGAAGCCGCCGCCGATGCCGGTGCCTC

260 CAAGACCTACCCTCAGCAGGCCGGTACCATTCGCAAGAACGGGTACATCGT

261 CATCAAAGGCAGGCCATGCAAGGTTGTTGAAGTTTCTACTTCAAAAACAG

262 GAAAGCATGGACATGCAAAGTGTCACTTTGTTGCCATTGATATTTTCAATGG

263 GAAAAAGCTTGAAGATATTGTTCCTTCATCTCACAATTGTGATGTTCCCCAT

264 GTGAACCGTACCGACTATCAGCTGATTGATATTTCTGAAGATGGCTTTGTGA

265 GTCTGTTGACTGATAATGGAAGTACCAAGGATGATTTGAAACTTCCCACTG

266 ATGATGCACTTCTTACTCAGATTAAGGATGGATTTGCTGAAGGAAAAGATCT

267 TGTGGTTTCTGTCATGTCTGCAATGGGAGAAGAGCAGATCTGTTCTTTGAA

268 GGACATAAGCAAGACCTAG

269 >*Malus ioensis cultivar* eIF5A

270 TCCAAGACCTACCCCCAGCAGGCGGGTACCATCCGCAAGAATGGCTACATC

271 GTCATCAAGGCCAGGCCTTGCAAGGTTGTTGAAGTCTCCACTTCCAAAACC

272 GGAAAGCACGGTCACGCTAAGTGTCACTTTGTGGCAATTGATATTTTCAAT

273 GGAAAGAAGCTTGAAGATATTGTTCCTTCGTCCCACAATTGTGATGTTCCCC

274 ATGTCAACCGTACTGACTATCAGCTGATTGATATCTCCGAGGATGGCTTTGT

GAGTCTCTTGACTGAAAATGGAAACACCAAGGATGATCTGAGGCTGCCCA

CTGATGACAGTCTGCTTACCCAGATCAAGGACGGGTTTAATGATGGAAAGG

ATCTTGTGGTGACTGTCATGTCTGCCATGGGAGAGGAGCAGATCTGTGCCC

TTAAGGACATTGG

>*Macadamia integrifolia* eIF5A

ATGTCGGACGAGGAGCATCACTTCGAGTCTAAGGCCGACGCTGGGGCGTC

AAAGACTTACCCTCAGCAGGCTGGTACCATCCGCAAGAACGGTTACATTGT

CATTAAGGCCAGACCCTGCAAGGTTGTCGAAGTTTCCACCTCCAAAACTGG

CAAGCATGGTCATGCCAAGTGTCACTTTGTGGGGATTGATATCTTCAATGGA

AAGAAGCTTGAAGATATTGTGCCTTCGTCCCACAACTGTGATGTTCCCCAT

GTTAATCGTACAGACTATCAGCTGATTGATATCTCTGAAGATGGTTTTGTGA

GCCTTTTGACTGAAAATGGTAATACCAAGGATGATCTGAGGCTTCCAACTG

ATGATAATCTGCTCACCCAGATCAAAGATGGCTTTGCTGAAGGAAAGGATC

TTGTGGTTACGGTCATGTCGGCGATGGGGGAAGAGCAGATCTGCACCCTCA

AAGACATTGGC

>*Nelumbo nucifera* eIF5A

ATGTCGGACGACGATCATCACTTTGAGTCGAAGGCCGATGCTGGAGCATCC

AAGACCTTTCCTCAGCAGGCTGGAACCATCCGTAAAAACGGCTACATCGTC

ATTAAGGGAAGGCCCTGCAAGGTTGTTGAGGTCTCTACCTCCAAAACAGG

GAAGCATGGTCATGCCAAGTGTCACTTTGTGGGTATTGATATATTTAATGGG

AAGAAGCTTGAAGATATAGTACCTTCCTCCCACAACTGTGATGCTCCCCATG

TTAATCGCACTGACTATCAGCTGATTGACATCTCTGAAGATGGTTTTGTGAG

TCTTCTCACTGAAAGTGGGAACACCAAGGATGATTTGAGGCTTCCCACTGA

TGATAATCTGCTCACCCAGATTAAAGATGGGTTTGCTGAAGGAAAGGATCT

CGTGGTGACGGTCATGTCGGCAATGGGAGAAGAGCAGATCTGCGCCCTCA

AGGACATTGGCCCCAAGAACTA

>*Trifolium pratense* eIF5A

ATGTCGGACGAGGAACACCACTTCGATTCAGTTGCCGATGCCGGAGCCTCC

AAAACCTACCCTCAGCAGGCCGGTACCATCCGCAAAAACGGTTACATCGTC

ATCAAGGGCAGACCTTACAAGGTTGTTGAAGTTTCTATTTCAAAAACAGGA

AAGCATGGACATGCAAAGTGTCACTTTGTTGCAATTGATATCTTCAACGGC

AAAAAGCTTGAAGATATTGTTCCTTCATCTCACAATTGTGATGTTCCTCATG

TGAATCGTACTGATTATCAGCTGATTGATATCTCTGAAGATGGTTTTGTGAGT

CTGTTGACTGATAACGGAAGTACCAAGGATGATCTGAAACTTCCCACTGAT

GATAGTCTGCTTACTCAGATTAAAGATGGATTTGCTGAAGGAAAAGATCTT

GTGGTTTCTGTCATGTCTGCAATGGGAGAAGAACATATATGTGCCCTGGAG

GACATTGG

>*Helianthus annuus* eIF5A

ATGTCGGATGAAGAGCATCAGTTTGAGTCAAAAGCAGATGCAGGTGCATCC

AAAACTTACCCTCAACAAGCTGGTACCATTCGTAAGAATGGTTATATTGTCA

TCAAGAATCGTGCTTGCAAGGTTGTAGAAGTTTCAACATCCAAGACTGGAA

AGCACGGTCATGCTAAATGCCACTTTGTTGGAATTGATATTTTCAATGGAAA

GAAGCTTGAAGATATTGTTCCGTCCTCCCACAATTGTGATGTTCCTCATGTG

AATCGTACCGACTACCAGCTTATTGATATATCAGAGGATGGATTTGTGAGTC

TGCTGACTGAGAGTGGTGGCACTAAGGATGACCTCAGGCTCCCAACTGAT

GACGCTCTGCTCACGCAGATAAAGGATGGTTTTAGTGAGGGAAAAGACCT

TGTTGTGACAGTGATGTCTGCCATGGGAGAAGAGCAGATCTGTGCTCTTAA

GGACATTGG

>*Malus domestica* eIF5A

ATGTCGGACGAGGAGCACCAGTTCGAATCCAAGGCCGACGCCGGCGCATC

TAAGACCTATCCCCAGCAGGCTGGTACCATCCGCAAGAATGGCTACATCGT

CATCAAGGCCAGACCTTGCAAGGTTGTTGAAGTCTCCACCTCCAAAACTG

GAAAGCACGGTCACGCTAAGTGCCACTTTGTGGCAATTGATATTTTCAATG

GAAAGAAGCTTGAAGATATTGTTCCTTCGTCCCACAATTGTGATGTTCCCCA

TGTCAACCGTACTGACTACCAGCTGATTGATATCTCTGAGGATGGCTTTGTG
AGTCTTTTGACTGAAAATGGAAACACCAAGGATGATCTGAGGCTTCCCACT
GACGACAGTCTGCTTACCCAGATCAAGGACGGGTTTAATGATGGAAAGGAT
CTTGTGGTGACCGTCATGTCTGCCATGGGTGAGGAGCAGATCTGTGCCCTC
AAGGACATTGG

>*Cynara cardunculus* var. *scolymus* eIF5A

CACTTTGAGTTCAATGCTGATGCAGGTGCATCCAAAACCTTCCCACAACAA
GCTGGAACCATCCGAAAGAATGGTTACATTGTCATCAAGAACAGACCCTGC
AAGGTTGTTGAGGTTTCTACTTCAAAAACTGGCAAGCACGGACATGCAAA
ATGTCATTTTGTGGGTATTGATGTATTTACTGGCAAGAAGCTTGAAGATATT
GTTCCTTCATCTCACAATTGTGATGTTCCTCATGTCTCTCGTACAGATTATCA
ACTTATTGATATCTCTGAAGATGGTTTTGTGAGTCTTCTGACTGAAAGTGGG
ACCACCAAAGATGATCTCAGGCTTCCCACAGACGAAAATCTTGTTGCTCAG
ATTAAAGATGGGTTTGCTGAAGGAAAAGATCTCGTGGTAAGCGTTATGTCC
GCAATGGGAGAAGAACAAATCAATTCTCTTAAGGACATTGGCAAGAATTAG

Supplementary Data Set S3. The primers of RT-qPCR of *eif5a*^{mut}.

	F	R
eif5a-1	TTCTCACAACTGTGATGTTCCT	CTACTTGGGGCCAACGTCCTTG
eif5a-2	TTCTCACAATTGTGATGTTCCT	CTACTTGGGGCCAATGTCCTTG
eif5a-3	TTCACACAATTGTGATGTGCCC	TTACTTGGGACCAATATCCTTC
eif5a-4	CCACAACTGTGATGTGCCCCAT	TTAGTTCTTGGTACCAATGTCC
eif5a-5	CCACAACTGTGATGTGCCACAT	CTAGTTCTTGGTACCAATGTCC
eif5a-6	TTCACACAATTGTGATGTCCCC	TTACTTTGGACCAATATCCTTC
eif5a-7	CCACAACTGTGATGTGCCCCAT	CTAGTTCTTGGTACCAATGTCC
eif5a-8	CCACAACTGTGATGTGCCACAT	CTAGTTCTTGGTACCAATGTCC
eif5a-9	TTCACACAATTGTGATGTGCCC	TTACTTGGGACCAATATCCTTC
eif5a-10	TTCACACAATTGTGATGTCCCC	TTACTTTGGACCAATATCCTTC

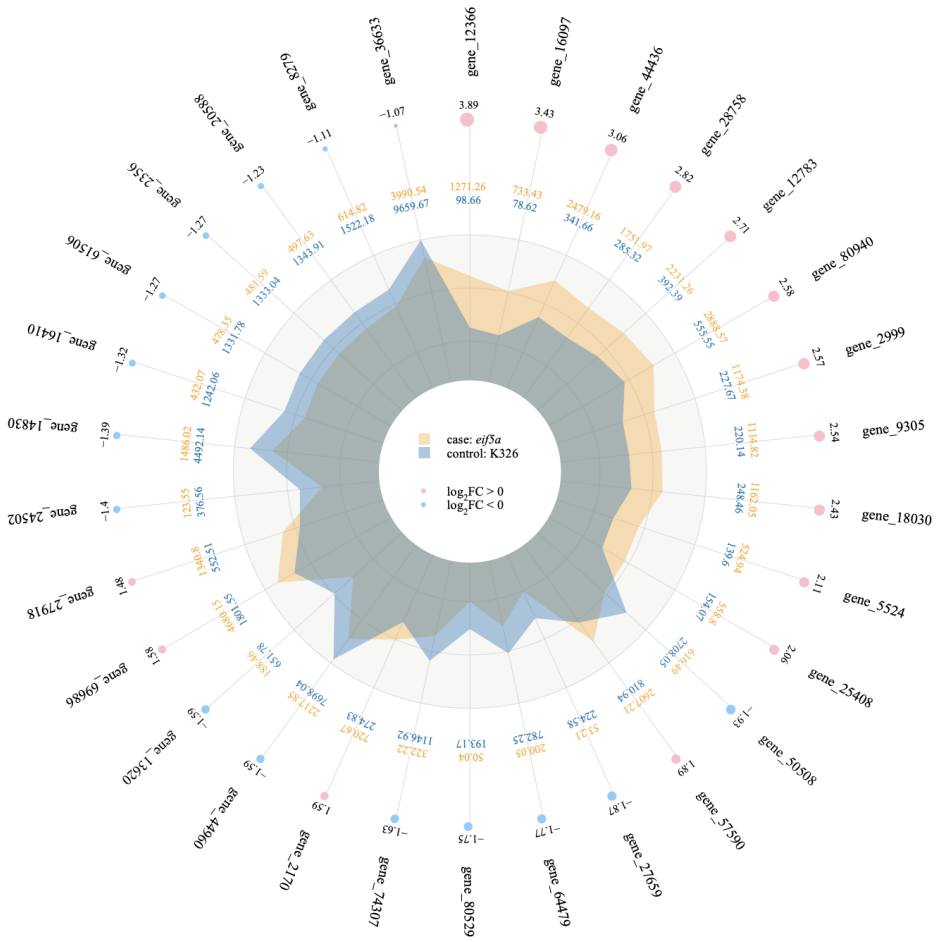

Figure S1. The radar for DEGs.

First circle: Upregulated genes are in red, downregulated genes are in light blue, and the size of the circles varies according to the magnitude of the $\log_2$(FC) values. Second circle: The data in the outer ring represent the average expression levels of the experimental group, while the data in the inner ring represent the average expression levels of the control group. Third circle: The average expression levels of each gene in the experimental group and the control group. For example, if a gene has a very high expression level in the control group, a yellow spike will appear in the graph.

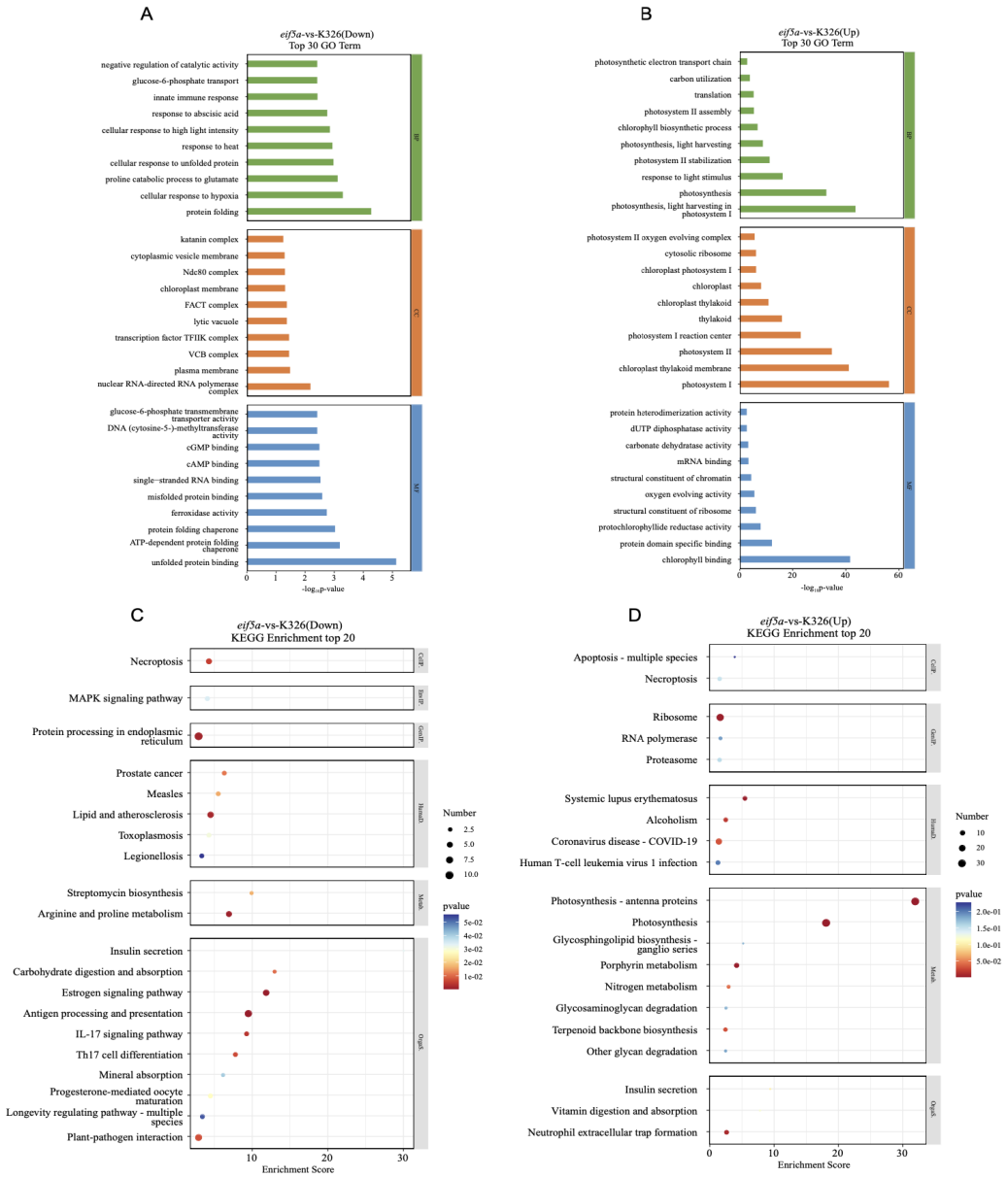

Figure S2. Perform GO and KEGG analyses on 1,019 DEGs.

(A) and **(B)** GO analyze：The top 30 down and up gene entries are presented.

(C) and **(D)** KEGG analyze：The top 20 down and up pathway enrichments are presented.