

## Supplementary Figures

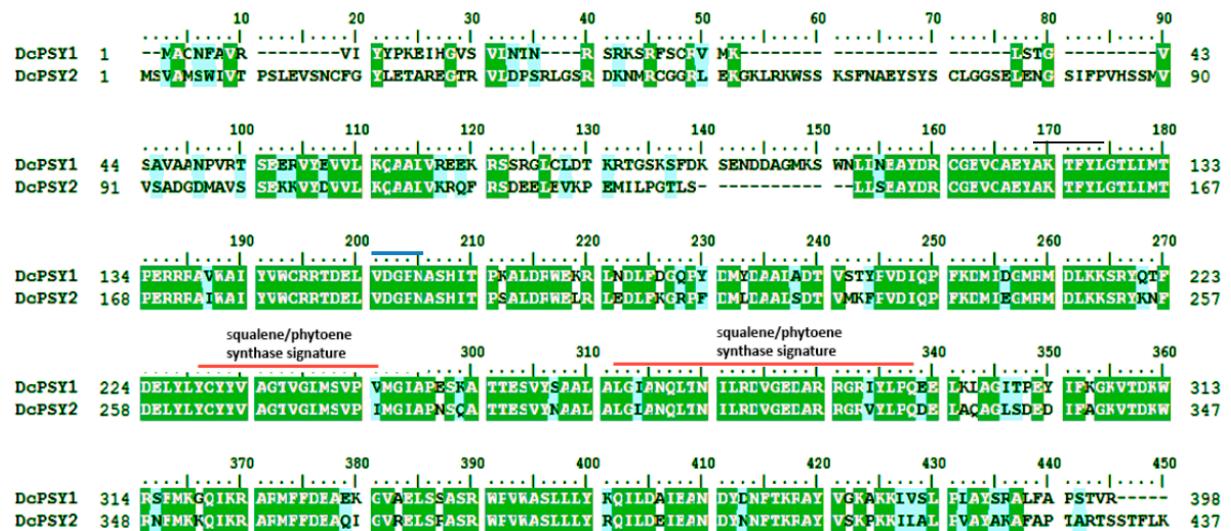
>gb|DQ192187.1|:357-1673 Daucus carota subsp. sativus putative phytoene synthase (PSY2) mRNA, complete cds

**ATG**TCA GTT GCT ATG TCC TGATT GTT ACT CCC AGT CTT GAG GTT CCA ATT GCT CGGGT ACT TT GGAGA  
CTGCCGAGAGGGAACCGAGTATTAGATCCATCTAGGTTGGTCCCAGGATAAGAATATGAGGTGTGG  
AGGCAGACTTGAGAAGGGTAAGCTCGGAAGTGGAGTTCAAATCTTCATGCTGAATATAGCTATTG  
TGTTGGTGGTCTGAATTAGAGAATGGAAGTATATTCTGTGCATTCAAGTATGGTAGTTAGTGCAG  
ATGGAGATATGGCAGTGT CATCAGAGAAAAAGGTATATGACGTGGTCTAAACAAGCAGCGTTGGCAA  
AAGACAGTT CAGATCTGATGAGGAATTAGAGGTTAAGCCAGAAATGATTCTCCGGGACTCTGAGCTTG  
TTAAGTGAAGCTTATGATCGATCGGTGAAGTATGTGCTGAGTATGCCAAAACATTACTTGGAACAC  
TACTGATGACCCAGAGAGGCGGAGGGCTATCTGGCAATATATGTGTGGTCAGAAGAACTGATGAATT  
GGTAGATGGACCTAATGCGTCACATATAACTCCTCAGCTTGGATAGGTGGAGTTGAGATTAGAAGAT  
CTTTCAAGGGCGTCATTGATATGCTGATGCTGCTTATCAGATACTGAAGTTCCCTGTT  
ACATCCAACCATTCAAAGATATGATTGAAGGGATGAGGATGGACCTTAAGAAGTCGAGATAACAAACTT  
CGACGAGCTATATCTTATTGCTATTATGTTGCTGGTACTGTTGGATTGATGAGCGTTCCAATTATGGC  
ATTGCACCTAATTCACAGGCAACAACGGAGAGTGTATAATGCTGCTTGGCTTAGGGCTTGCTAATC  
AATTGACTAACATACTCAGGGATGTTGGAGAAGATGCCAGAAGAGGAAGGGTTATCTACCACAAGATGA  
ACTGGCTCAAGCAGGGCTTCTGATGAAGATATATTGCGGGGAAGGTTACCGATAATGGAGGAATT  
ATGAAGAACAAATTAAAGAGGGCAAGGATGTTTCGATGAAGCACAAATAGGAGTAAGAGAACTCAGCC  
CAGCTAGTAGATGGCCGGTATGGCATCACTGCTGTTACCGTCAAATAGATGAAATTGAAGCCAA  
CGATTACAATAATTTACGAAGAGGGCTTATGTCAGCAAACCCAAGAAAATACTTGCTTGCCAGTTGCA  
TATGCAAAGCTTTGCTCAACAGCAAGAACAGTTCAACGTTCTGAAAACAT**GA**

**Supplementary Figure 1. DcPSY2 cloned sequence.** The coding sequence of *DcPSY2* (1276 bp) was amplified and cloned into pCR8® entry vector. Start and stop codons are highlighted in bold.

Query	184	TCTTCAATGCTGAATATAGCTATTGTTGGGTGGTC-TGAATTAGAGAATGGAAG	242
Sbjct	190	TCTTTAATTGCTGATCCAAGATATTGATGCTTGGGTGGATCAAGAACT-GAAAAGGAAAG	248
Query	243	TATATTT-CCTGTCATTCAAGATATGGTAGTTAGTCAGATGGAGATATGGCAGTGTCAT	301
Sbjct	249	CA-GTTTCCTCTGTAACGTCAGTTGGTGGCTAGCCCAGCTGAGAAATGACAGTGTCAT	307
Query	302	CAGAGAAAAGGTATATGACGTTGTTCTTAAACAAGCAGCGTTGGTCAAAGACAGTTCA	361
Sbjct	308	CAGAGAAAAGGTATATGACGTTGTTCTTAAACAAGCAGCGTTGGTCAAAGACAGTTCA	367
Query	362	GATCTGATGAGGAATTAGAGGTTAACCCAGAAATGATTCTTCCGGGACTCTGAGCTTGT	421
Sbjct	368	GATCTACCGATGAAATTAGAGGTTAACCCAGAAATGATTCTTCCGGGACTCTGAGCTTGT	427
Query	422	TAAGTGAAGCTTATGATCGATCGGTGAAGTATGTCGTTGAGATGCCAAAATTTTACT	481
Sbjct	428	TGAGTGAAGCATATGATCGTTGGCGAACGTTGAGATGCCAAAATTTTACT	487
Query	482	TGGGAACACTACTGATGACCCCCAGAGAGGGGGCTATCTGGCAATATATGTGTGGT	541
Sbjct	488	TAGGAACAAAGCTAACTGACTCCAGAGAGAACAGAGCTATCTGGCAATATATGTGTGGT	547
Query	542	GCAGAAGAACTGATGAATTGGTAGATGGACTAAATGCGTCACATACTCTTCAGCTT	601
Sbjct	548	GCAGGAGAACGGATGAGCTAGTCGATGGCTAACGCATCACACATAACTCCACAGCTT	607
Query	602	TGGATAGGTGGGAGTTGAGATTAGAACGATTTCAAGGGCGTCATTGATATGCTTG	661
Sbjct	608	TAGACAGGTGGGAGGCCAGGGCTGGAAAGATATTTCAGTGGCGGCCATTGATATGCTTG	667
Query	662	ATGCTGTTTATCAGATACTGAAAG-TTCTCTTGTGACATCAACCATTCAGAGAT	720
Sbjct	668	ATGCTGTTTATCAGATACTGTC-TCCAGATTCTCTTGTGATATTCAAGCATTCAGAGAT	726
Query	721	ATGATTGAAGGGATGAGGAATGGACCTTAAGAACGATCGAGATAACAAACTCGACGAGCTA	780
Sbjct	727	ATGATAGAAGGAATGCGTATGGACTTGTGGAAATCCAGATATAACAACCTCGATGAGCTA	786
Query	781	TATCTTTATTGCTATTGTTGCTGTACTGTTGAGTTGATGAGCGTCCAAATTATGGGC	840
Sbjct	787	TATCTTATTGTTATTGTTGCTGTACTGAGGACTGATGAGTGTCCAGTTATGGGT	846
Query	841	ATTGCACCTAATTACAGGCAACACAGGAGACTGTTATAATGCTGCTTGGCTTAGGG	900
Sbjct	847	ATTGCACCTGAATCAAGGCAACACAGGAGACTGATATAATGCTGCTTGGCTTAGGG	906
Query	901	CTTGCTTAATCAATTGACTAACATACTCAGGGATGTTGGAGAAGATGCCAGAACAGGAAGG	960
Sbjct	907	CTTGCAAAATCAACTAACCAATAACTCAGAGATGTTAGGAGAACATGCCAGAACAGGAAGCA	966
Query	961	GTTTATCTACCACAAGATGAACTGGCTCAAGCAGGGCTTCTGATGAAGATATATTGCG	1020
Sbjct	967	GTACTTACCTCAAGGAAATTAGCACAGGGCTTCTGATGAAGATATATTGCG	1026
Query	1021	GGGAAG-GTTACCGATAATGGAGGAATTCTATGAGAACGAAATTAGAGGGCAAGGAT	1079
Sbjct	1027	GG-AAGAGTGACCGATAAGTGGAGGAACCTTATGAGAACAAATTGAGGGCGAGGAA	1085
Query	1080	GTTTTTCGATGAAGCACAAATAGGAGTAAGAGAACTCAGCCCAGCTAGTAGATGGCGGT	1139
Sbjct	1086	ATTCTTGTGATGAGTCAGAGAAAGGTTGACAGAACCTGGACTCTGCTAGTAGATGGCGGT	1145
Query	1140	ATGGGCATCACTGCTGTTGACCGTCAA-ATACTAGATGAAATTGAGCCAAACGATTACA	1198
Sbjct	1146	GTTAGCAGCGCTGCTGTTGATCG-CAAGATATTGAGGAGATGAGCCAACTGACACTACA	1204
Query	1199	ATAATTTCAGAAGAGGGCTTATGTCAGCAAACCAAGAAAATCTGCTTGGCAGTTG	1258
Sbjct	1205	ATAACTTCACAAGGAGGCCATTGTTAGCAAGCCAAAGAACGCTCTCACCTGGCCATTG	1264
Query	1259	CATATGCAAAAGCTTTG	1276
Sbjct	1265	CTTATGCAAAATCTCTTG	1282

**Supplementary Figure 2.** *DcPSY2* and *NtPSY2* alignment. The *DcPSY2* coding sequence (subject, 184bp-1276bp) presents 80% identity with *NtPSY2* (query, 190-1282bp; LOC107761716; XM\_016579975.1). Score: 817 bits (442)

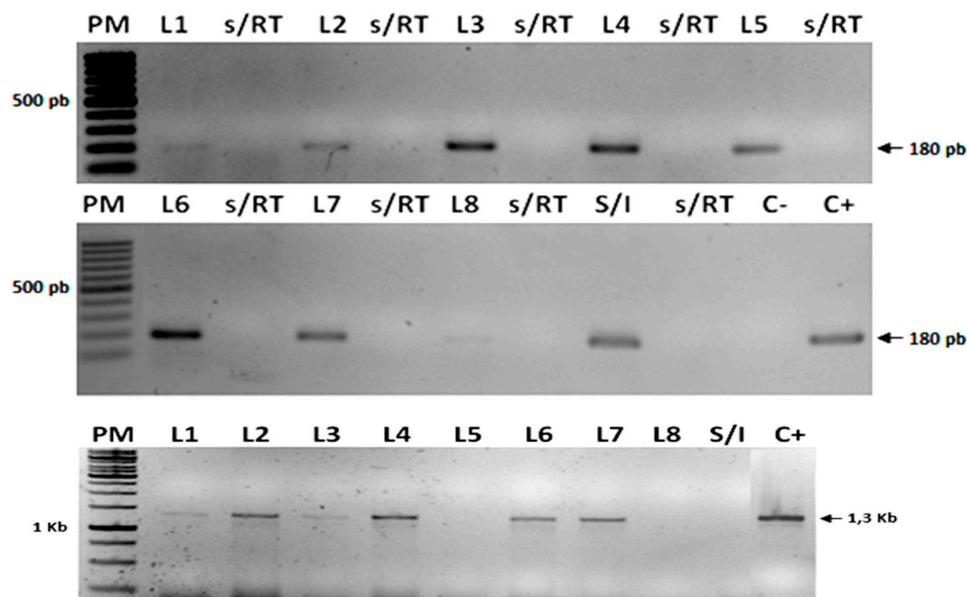


**Supplementary Figure 3. DcPSY1 and DcPSY2 alignment.** The predicted proteins DcPSY1 (398 aa) and DcPSY2 (437 aa) share 64% identity and present the same amino acids at the active site (highlighted in dark), Mg<sup>2+</sup> binding site (highlighted in blue). Two squalene/phytoene synthase signatures are present in both *D. carota* PSY proteins (in red). Identical amino acids are highlighted in dark green. Similar amino acids are highlighted in light blue. The squalene/phytoene synthase, isoprenoid synthase and the trans-isoprenyl diphosphate synthase domains are depicted in Figure 2A.

<i>PSY-[A. thaliana]</i>	MSSSVAVLWATSSLNPDP-----MNNGK-LYRVLVLESSRLFSPCQ-----NORLNKGKKQQ-IPTWSSSFVR-NRSRRIG----VSSSLVASPGEIALSEEKVNVLQQAALVNQLRSSS 108
<i>PSY-[N. pseudonarcissus]</i>	--MVVAIRVVS-AIEPIR-----LGSEAN-WRFSSPKY-----DLNRKKSRLSVYSLYTTSKYACVG-FEAENNGKFIRSSLVANPAGEATISSEQVKYDVVLQQAALVKDQTCKSR 107
<i>PSY-[D. kaki]</i>	--MVALSVSPNSEVSN--FGVFESEREGNRSDDSKFIARYKSCLICHVALKKSKOSNWYGSFYADSSYPSLDSGLEKKGFPLLSNVNAPGEMASSEQVKYDVVLQQAALVKQLKTG- 122
<i>PSY-[Z. mays]</i>	--MAIIILVRAAS-----PGLSAADS--ISHQGT-----LCQSTLLTKRPAAARRWPCSSLGLHPWEAGRSP-AVYSSLVPNPAGEAVVSEQVKYDVVLQQAALLKQLRTP- 99
<i>PSY1-[D. carota]</i>	--MACNFAVRYIY-----YIKEIHG--VSVLNT-----NSRSKSRFSCRMVKMLS-----TGVSABAANP---VRTSERVYEVVLQQAALVREEKRSRR 77
<i>PSY2-[D. carota]</i>	--MSVMSWLVTPSLEVNC-FGYLETAREGRYLDPSRLSGSRDKNMRCGRLKGKLRNWKSKSFNAEYSYSLGGELENGSIPVHSMVMSADGMAVSSEEKVKYDVVLQQAALVKQFRSD- 123
<i>PSY1-[M. Domestica]</i>	--VKNFMCSTIS-----FAGKTY-----IGESNRIRRIISMVTTAKA-----QVITAPKQRSPVFPELSQGPFLADLHVQITVQRQSQT- 77
<i>PSY2-[M. Domestica]</i>	--MSGVLLWVVS-----PKENASSLLGLMPR-----ICTRRSKFCPKLGFSR-----VLAGSGAVNP---ARSEEKYEVVLQQAALVKEQSTVKR 80
<i>PSY3-[M. Domestica]</i>	--MSVAVLWVFSPTNEVFK-FYGILDSSR-----FVLNGQSSR-----AKMGGKQDWKSCSLCTDVKYSSVGGGLGSEAKFPVSLSMVANPLGESAVSEQVKYDVVLQQAALVKQLRSN- 110
<i>PSY4-[M. Domestica]</i>	--MSGVLLWV-----PKENASSPLGLP-----ICTRRSKLC SKLGFSG-----VLAGSGAVNP---ARSEEKYEVVLQQAALVREPHNTVKK 80
<i>PSY-[A. thaliana]</i>	YDLD-VKKPQ-----DVLPGLPSLSSLVGEAYDRGEVCAEYPKTYLGTLLMMTPERRKAIWAIY-----VCCRTEDELVDPNASHITPMAUDRWEARLEDLFRGRPFDMLDAA 211
<i>PSY-[N. pseudonarcissus]</i>	-KSTDVKP-----DVLPGLTVYLLK-DAYDRGEVCAEYAKTYLGTLLMMTPERRKAIWAIY-----VCCRTEDELVDHNASHITPSALDRWEARLEDLFRGRPFDMLDAA 207
<i>PSY-[D. kaki]</i>	--EDYEVKP-----DVLPGTSLSLMT-EAYDRGEVCAEYAKTYLGTLLMMTPERRKAIWAIY-----VCCRTEDELVDHNASHITPTAALDRWELELDLFRGRPFDMLDAA 222
<i>PSY-[Z. mays]</i>	--VLDARPO-----DMDP-RNLK-EAYDRGEVCAEYAKTYLGTLLMMTPERRKAIWAIY-----VCCRTEDELVDHNASHITPTAALDRWELELDLFRGRPFDMLDAA 197
<i>PSY1-[D. carota]</i>	GLCLDTKRTGSKSFDSKSEN-DDAGMK-SWNLLN-EAYDRGEVCAEYAKTYLGTLLMMTPERRKAIWAIY-----VCCRTEDELVDPNASHITPKALDRWEKLRLNDFDGOPYDMYDA 189
<i>PSY2-[D. carota]</i>	--EELEVKP-----EMILPGLTSLSL5-EAYDRGEVCAEYAKTYLGTLLMMTPERRKAIWAIY-----VCCRTEDELVDPNASHITPSALDRWELELDLFRGRPFDMLDAA 223
<i>PSY1-[M. Domestica]</i>	--SVDEGG-----RRRPQPNPSL-EAYERGKNLCAEYAKTYLGTLLMMTPERRKAIWAIYGENSTLYVHVSRVCCRTEDELVPNSDYMSEVLDRWEORLEDFEGRPYDMLDAA 190
<i>PSY2-[M. Domestica]</i>	SLSLDERIVT-----EGLDNWDLLD-KAYDRGEVCAEYAKTYLGTLLMMTPERRKAIWAIY-----VCCRTEDELVPNSAISITPKALDRWEKRELDFEGRPYDMYDA 181
<i>PSY3-[M. Domestica]</i>	--GYLDVKP-----DILLPGNLSL5-KAYDRGEVCAEYAKTYLGTLLMMTPERRKAIWAIY-----VCCRTEDELVPNSAISITPKALDRWEKRELDFEGRPYDMYDA 210
<i>PSY4-[M. Domestica]</i>	SLSLDERITE-----GLNWDLNN-KAYDRGEVCAEYAKTYLGTLLMMTPERRKAIWAIY-----VCCRTEDELVPNSAISITPKALDRWEKRELDFEGRPYDMYDA 200
<i>PSY-[A. thaliana]</i>	[ADTIVARYPVDTOPFPRMIEGMNMLKKSRYNKFODLYLYCYYACTVGLMSVPMCIDPKS]KATTESVNAALGIANOLTNILFQVEDGERRGRVVLPODELAQAGLSDEDTFAKGVTDKWRF 338
<i>PSY-[N. pseudonarcissus]</i>	[GDTVRFPVDTOPFPRMME/GMNRMLKKSRYNKFDELYLYCYYACTVGLMSVPMIDPKS]KATTESVNAALGIANOLTNILFQVEDGERRGRVVLPODELAQAGLSDEDTFAKGVTDKWRF 334
<i>PSY-[D. kaki]</i>	[SDTITSRPFDTOPFPRMIEGMNMLKKSRYNMFDELYLYCYYACTVGLMSVPMIDPKS]KATTESVNAALGIANOLTNILFQVEDGERRGRVVLPODELAQAGLSDEDTFAKGVTDKWRF 349
<i>PSY-[Z. mays]</i>	[SDTITSRPFDTOPFPRMIEGMNMLKKSRYNMFDELYLYCYYACTVGLMSVPMIDPKS]KATTESVNAALGIANOLTNILFQVEDGERRGRVVLPODELAQAGLSDEDTFAKGVTDKWRF 324
<i>PSY1-[D. carota]</i>	[ADTIVNFEPDIDTOPFPRMIEGMNMLKKSRYNMFDELYLYCYYACTVGLMSVPMIDPKS]KATTESVNAALGIANOLTNILFQVEDGERRGRVVLPODELAQAGLSDEDTFAKGVTDKWRF 316
<i>PSY2-[D. carota]</i>	[LADTIVTFPVDTOPFPRMIEGMNMLKKSRYNMFDELYLYCYYACTVGLMSVPMIDPKS]KATTESVNAALGIANOLTNILFQVEDGERRGRVVLPODELAQAGLSDEDTFAKGVTDKWRF 350
<i>PSY1-[M. Domestica]</i>	[LTHTVNFEPDIDTOPFPRMIEGMNMLKKSRYNMFDELYLYCYYACTVGLMSVPMIDPKS]KATTESVNAALGIANOLTNILFQVEDGERRGRVVLPODELAQAGLSDEDTFAKGVTDKWRF 317
<i>PSY2-[M. Domestica]</i>	[LSDTIVTFPVDTOPFPRMIEGMNMLKKSRYNMFDELYLYCYYACTVGLMSVPMIDPKS]KATTESVNAALGIANOLTNILFQVEDGERRGRVVLPODELAQAGLSDEDTFAKGVTDKWRF 308
<i>PSY3-[M. Domestica]</i>	[LSDTIVTFPVDTOPFPRMIEGMNMLKKSRYNMFDELYLYCYYACTVGLMSVPMIDPKS]KATTESVNAALGIANOLTNILFQVEDGERRGRVVLPODELAQAGLSDEDTFAKGVTDKWRF 337
<i>PSY4-[M. Domestica]</i>	[LSDTIVTFPVDTOPFPRMIEGMNMLKKSRYNMFDELYLYCYYACTVGLMSVPMIDPKS]KATTESVNAALGIANOLTNILFQVEDGERRGRVVLPODELAQAGLSDDDTFRKGVTDKWRF 307
<i>PSY-[A. thaliana]</i>	MKQDQIARMFMDEAEKVTELSEASRNPWVASLLYLRYIIDEI[EANDYNNFT]RAY[GKVIKAALPLAYAKSVLKTSRSSLSI-----423
<i>PSY-[N. pseudonarcissus]</i>	MKRDQIARTTFEEQAEKVTELSEASRNPWVASLLYLRYIIDEI[EANDYNNFT]RAY[GKVIKAALPLAYAKSVLKTSRSSLSI-----423
<i>PSY-[D. kaki]</i>	MKNDQINRKFEEQAEKVTELSEASRNPWVASLLYLRYIIDEI[EANDYNNFT]RAY[GKVIKAALPLAYAKSVLKTSRSSLSI-----435
<i>PSY-[Z. mays]</i>	MKRDQIARTTFEEQAEKVTELSEASRNPWVASLLYLRYIIDEI[EANDYNNFT]RAY[GKVIKAALPLAYAKSVLKTSRSSLSI-----410
<i>PSY1-[D. carota]</i>	MKGQIKARMFMDEAEKVTELSEASRNPWVASLLYLRYIIDEI[EANDYNNFT]RAY[GKVIKAALPLAYAKSVLKTSRSSLSI-----398
<i>PSY2-[D. carota]</i>	MKGQIKARMFMDEAQVRELSPASRNPWVASLLYLRYIIDEI[EANDYNNFT]RAY[GKVIKAALPLAYAKSVLKTSRSSLSI-----438
<i>PSY1-[M. Domestica]</i>	MKGQIKXARFYFXAEEGMSQDQKMRMLDRKSRVQNFDELRYLYCYYACTVGLMSVPMICPESQESTESVNAALGIANOLTNILFQVEDGERRGRVVLPODELAQAGLSDDDTFRKGVTDKWRF 400
<i>PSY2-[M. Domestica]</i>	MKGQIKARMFMDEAEKVTELSEASRNPWVASLLYLRYIIDEI[EANDYNNFT]RAY[GKVIKAALPLAYAKSVLKTSRSSLSI-----396
<i>PSY3-[M. Domestica]</i>	MKGQIKARMFMDEAEKVTELSEASRNPWVASLLYLRYIIDEI[EANDYNNFT]RAY[GKVIKAALPLAYAKSVLKTSRSSLSI-----427
<i>PSY4-[M. Domestica]</i>	MKGQIKARMFMDEAEKVTELSEASRNPWVASLLYLRYIIDEI[EANDYNNFT]RAY[GKVIKAALPLAYAKSVLKTSRSSLSI-----395

#### Supplementary Figure 4. Multiple alignment of amino acid sequences of different enzymes encoded by PSY genes.

The figure shows the alignment of the amino acid sequence of AtPSY (GenBank accession number: AAA32836.1), NpPSY (CAA55391.1), DkPSY (ACM44688.1), ZmPSY (ACY70935.1), DcPSY1 (DQ192186.1), and DcPSY2 (DQ192187.1). In addition, the characteristic functional domain of the PSY enzymes (Trans\_IPPS-HH) are indicated; the aspartate-rich regions (red rectangles), the residues that cover the active site (green rectangles) and those residues that comprise both the active site and the substrate-binding pocket (black underlined). Those residues that are most conserved among the analyzed proteins are shown on a gray background, the higher the hue of this color, the higher the degree of conservation.



**Supplementary Figure 5: Amplification by RT-PCR of the *rRNA18S* and *DcPSY2* from the transgenic *N.tabacum* lines transformed with pGWB2-DcPSY2.** RT-PCR was carried out in L1-L8 for the endogenous *rRNA18S* (180bp) and the complete coding sequence of the transgene *DcPSY2* (1300bp). In the s/RT lanes, the respective controls without RT were loaded, in which mRNA from the lines analyzed was used as a template to determine the presence of gDNA in the samples. The positive control (C+) for *rRNA18S* corresponds to gDNA of wild-type *N. tabacum*. The positive control (C+) of *DcPSY2* corresponds to pDNA of the pGWB2/DcPSY2 vector. S/I: amplification using cDNA from *N. tabacum* transformed with the pGWB2 empty vector (negative control). C-: Negative control, without adding DNA. MW: 1 Kb molecular weight standard. EtBr-stained 1% agarose gel electrophoresis.

**Supplementary Table S1. List of primers used in this work.** *DcPSY1* (DQ192186), *DcPSY2* (DQ192187), *NtPSY1* (JF461341), *NtPSY2* (JX101475), *NtLCYB* (KC484706), *NtNCED3* (JX101472.1), *NtOsmotin* (X61679.1), *RNAr18S* (AJ236016.1) and *Nt EIF1α* (AF120093.1)

Gene	Primer name	Sequence (5'→3')	Used for
<i>UBI</i>	ubiq-F	GCTCGAGGACGGCAGAAC	qRT-PCR
	ubiq-R	CTTGGGCTTGGTAGGTCTTC	
<i>18S</i>	18SF	TTGATTACGTCCCTGCCCTT	qRT-PCR
	18SR	ACAATGATCCTCCGCAGGT	
<i>DcPSY1</i>	psy1q-F	AGTCGATGGAGCATTACCATAATT	qRT-PCR
	psy1q-R	CTAATGGGTTACAGAGGGTTGTGTTA	
<i>DcPSY2</i>	psy2q-F	GCTAATAAACTTCCGTGGGTGTT	qRT-PCR
	psy2q-R	GCTGGAGTTAGTGCTACCC	
<i>DcPSY2 cds</i>	Psy2F	CGCACGTGTCACTTTTCAG	Complete cds
	Psy2R	AAACG GGACTAGTAATGTCAGTTGC TATGTC	amplification, 1276 bp
<i>NtPSY1</i>	qNtPsy1 F	GGAACCAAGCTAATGACCCCCAGAGAGA	qRT-PCR
	qNtPsy1 R	TCAGAGATGTTGGAGAAGATGC	
<i>NtPSY2</i>	qNtPsy2 F	TCAGAGATGTTGGAGA AGATGC	qRT-PCR
	qNtPsy2 R	GCTTCAATCTCGTCC AATATCTTG	
<i>NtLCYB</i>	qNtLCYB F	CCGTGTTAAATTCCACACGCCAA	qRT-PCR
	qNtLCYB R	GAAGCCAGTTGCATCAAGCACCAC	
<i>NtNCED3</i>	qNtNCED3 F	CTTACCAAAAACAGCCGACCCACG	qRT-PCR
	qNtNCED3 R	CACCAATGGCTTAGAAAAACAGGACG	
<i>NtOsmotin</i>	qNtOsmotin F	CTTCCTCCTGCCTGGTAGTTACT	qRT-PCR
	qNtOsmotin R	CGTGCCATTAGTACCTCGTGGTCAT	
<i>Nt EIF1α</i>	qNt EIF1α F	TGAGATGCACCACGAAGCTC	qRT-PCR
	qNt EIF1α R	CCAACATTGTCACCAGGAAGTG	