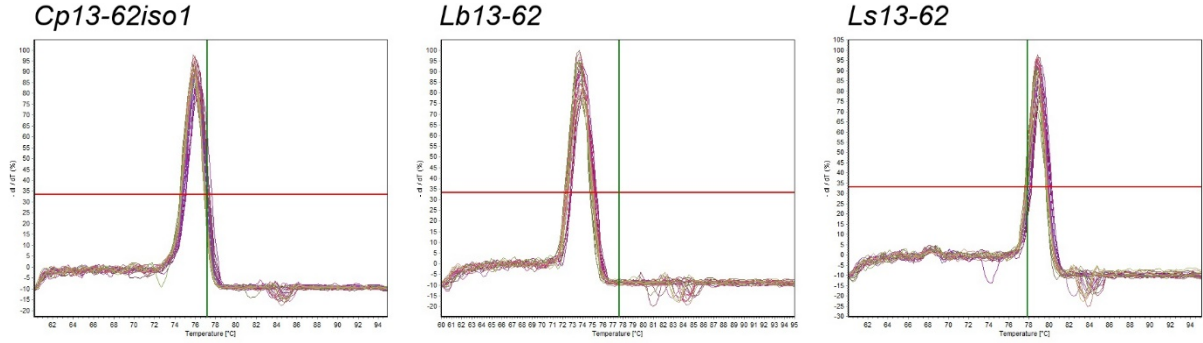


**Supplementary Table S1** List of primers used in this study.

	<b>Primer</b>	<b>Sequence (5'-3')</b>
<b>Genome walking</b>	Cp13-62GW_iso1_R1	GAAGAACTCGGCTTCAAGCAACTC
	Cp13-62GW_iso1_R2	GTTCAAAGGGAAGCTCTAAGAGACTAA
	Cp13-62GW_iso2_R1	GGGTTGGAATCTTGGCATAGCTC
	Cp13-62GW_iso2_R2	GCCAATATGGAAGTGCTGCAAAG
	Ls13-62GW_R1	TTATTATTAATGCGGCGGCGAAGGT
	Ls13-62GW_R2	TCGTTTTCTTTCTTTGCTGGGTCGT
<b>Gene cloning</b>	Cp13-62g_iso1_F	CAAACGGAGGGCTAGATTCAT
	Cp13-62g_iso2_F	CCTTCTTCGAAGCTTCATCAC
	Cp13-62g_iso1+2_rev	CTAAAACACACAGCCATGTACGA
	Lb13-62g_F	ACTCCACCGGTCCACTTCTTC
	Lb13-62g_R	TTCGGTAAATCGTGGGAGAAAAGAGAG
	Lb13-62g2_F	GTGAAGATCATCTAGATCAACGTACGAG
	Ls13-62g_F	CAACCCCTCGAGAAACCTAA
	Ls13-62g_R	CATGCATGCAAGACGATTATT
<b>GUS analysis</b>	Cp13-62p_F	CACT <b>TCTAGAT</b> TCTCCACTTCTTCTT
	Cp13-62p_iso1+2_frag_F	ACCC <b>TCTAGAG</b> GCTATTACTCGTCTG
	Cp13-62p_R	TGTG <b>CCATGG</b> TTTGCTGCTGTG
	Lb13-62p_F	GTGT <b>GTCGAC</b> CATCTAGATCAACGTACG
	Lb13-62p_frag_F	GAAAT <b>TCTAGAT</b> TACTCGTCAGCCATCCA
	Lb13-62p_R	TGTG <b>CCATGG</b> TTGATGCTGCGGCTTGA
	Ls13-62p_F	CACT <b>TCTAGAT</b> TCTCCACTTCTTTGCT
	Ls13-62p_R	TGTG <b>CCATGG</b> TGCGCGGCGCGT
<b>Mutagenesis</b>	Cp13-62p_iso1_c845t_F	GGTTCTACACCTGTCAGGCTTTCGACGGAGG
	Cp13-62p_iso1_c845t_R	CCTCCGTCGAAAGCCTGACAGGTGTAGAACC
	Cp13-62p_iso2_c904t_F	CTCCGGCCAAAGCCTGACAGCTGTAGAAC
	Cp13-62p_iso2_c904t_R	GTTCTACAGCTGTCAGGCTTTGGCCGGAG
	Lb13-62_c662t_R	AGTTTTTACACGTGTCAGGCTGTGGCGGAAGG
	Lb13-62_c662t_F	CCTTCCGCCACAGCCTGACACGTGTAAAAACT
	Ls13-62_c623t_F	TCGACACCTGTCGGGCTGCCGCCG
	Ls13-62_c623t_R	CGGCGGCAGCCCGACAGGTGTCSA
<b>RT-qPCR</b>	Cp13-62iso1_qPCR_F	GCAAATCGCCAAGTCTCATT
	Cp13-62iso1_qPCR_R	CATCATCGTCGTCACTGCTT
	Lb13-62_qPCR_F	CATCTCCATGGTCCTTTAAGC
	Lb13-62_qPCR_R	TCCTAAACACACTCAGCCACA
	Ls13-62_qPCR_F	GTA
	Ls13-62_qPCR_R	TCGTTCCCACTCCCATAGAC
<b>RT-PCR</b>	Cp13-62iso1_RT-PCR_F	CCTGGCATCATGAGAAGGAT
	Cp13-62iso1_RT-PCR_R	GAACTCTGAATCGCCCTGAC
	Lb13-62_RT-PCR_F	AACCTCAGGCAACATACTCG
	Lb13-62_RT-PCR_R	CCTAAACACACTCAGCCACA
	Ls13-62_RT-PCR_F	TGAGAAACAAGCTGGGGAAC
	Ls13-62_RT-PCR_R	AGGTGAGATCTGGCGATTTG
	CpEF1 $\alpha$ _RT-PCR_F	AGTCAAGTCCGTCGAAATGC

RT-PCR	CpEF1 $\alpha$ _RT-PCR_R	CACTTGGCACCCCTTCTTAGC
	LbEIF5A_RT-PCR_F	GGGAAAGGACCTTGTTGTGA
	LbEIF5A_RT-PCR_R	TGGGCTCATTACTCCACTGA
	LsEIF5A_RT-PCR_F	TGGGTGGTTTTTATCAATGTCC
	LsEIF5A_RT-PCR_R	GGTTGAGTGATAACACAGTAGCAA
	Ot13-62_RT-PCR_F	ACACCGCAGGCCAAGAAG
	Ot13-62_RT-PCR_R	TAGATGAAGCTCCTGGCGATG
	OtALAD_RT-PCR_F	GATGAGGCAGAAGGAGCAGAT
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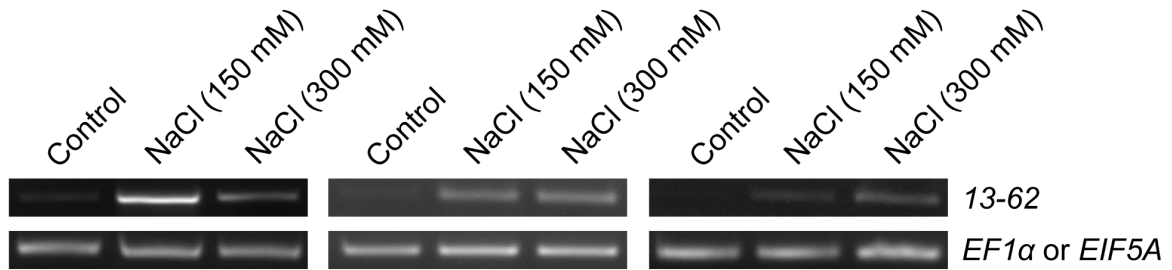
**Supplementary Figure S1**



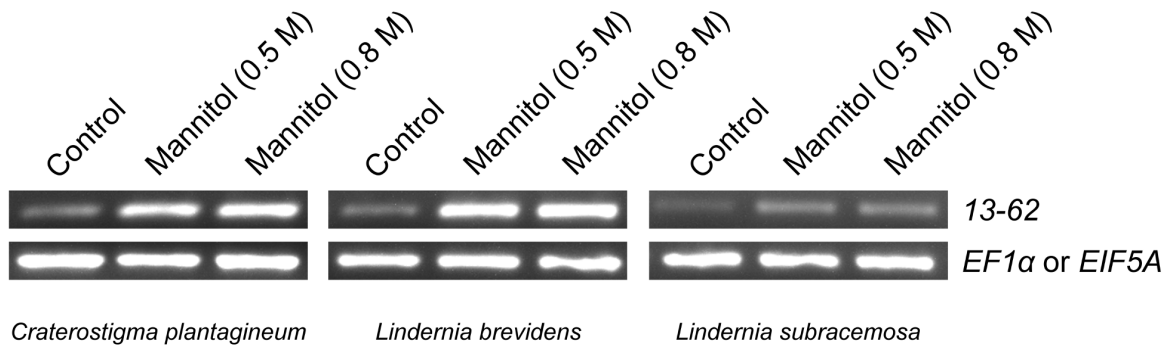
**Supplementary Figure S1** Specificity of the primer pairs used to amplify 13-62 in RT-qPCR amplifications. Dissociation curves were obtained from three biological repeats with three technical repeats each.

## Supplementary Figure S2

**A**



**B**



**Supplementary Figure S2** RT-PCR analysis of *Craterostigma plantagineum*, *Lindernia brevidens*, and *Lindernia subracemosa* 13-62 expression in response to salt and osmotic stress. (A) 13-62 expression in response to salt treatments. cDNA was prepared from detached leaves incubated for 24 h in water (control), or in either 150 mM or 300 mM NaCl solutions (B) 13-62 expression in response to mannitol treatments. cDNA was prepared from detached leaves incubated for 48h in water (control), or in 0.5 M or 0.8 M mannitol solutions. cDNA samples in (A) and (B) were amplified with primers specific for the Cp13-62 (Cp13-62\_RT-PCR\_F and Cp13-62\_RT-PCR\_R), Lb13-62 (Lb13-62\_RT-PCR\_F and Lb13-62\_RT-PCR\_R), or Ls13-62 (Ls13-62\_RT-PCR\_F and Ls13-62\_RT-PCR\_R) transcripts. Expression of the elongation factor 1 $\alpha$  (*EF1 $\alpha$* ) gene or of the eukaryotic translation initiation factor 5A (*EIF5A*) gene was analysed as a control for cDNA preparations of *C. plantagineum* or *L. brevidens* and *L. subracemosa*, respectively. All primer sequences are listed in Supp. Table 1.

# Supplementary Figure S3

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XP_006393503.1_E.salsugineum 1 MGISRE-KRS-----LLVS---T-VMLLFF-FNIIH-LRQ-V-- 29
XP_003579663.1_B.distachyon 1 MGAPAG-FVV-----M-AS---V-V-LAVS-LCGGV-GR-AQ-- 27
XP_002447761.1_S.bicolor 1 MGIPASSSS-----VAVV---V-ATVVVC-LCGAL-AR-AQAQ 32
XP_003542185.1_G.max 1 MAPYIS-RD-----RASIFVLLASLVPL-ILLDY-SS-S-- 31
BAJ94922.1_H.vulgare 1 MGPPAT-VVV-----V-AL---V-A-V--A-LCVGV-CR-AQ-- 25
XP_015634158.1_O.sativa 1 MAAPVT-FAV-----V-AA---V-A-L-VA-LCGGGGAR-AQ-- 27
Cp13-62iso1_C.plantagineum 1 MAQQPT-FAS-----AAL---V-SFFLAL-IC-SC-SY-A-- 26
Cp13-62iso2_C.plantagineum 1 MAQQPT-FAS-----AAL---V-SFFLVL-ICSSC-SY-A-- 27
Lb13-62_L.brevioidens 1 MAQQRP TIAA-----ALT---I-SFCLLMQLC-SC-SL-F-- 28
Ls13-62_L.subracemosa 1 MAQQPT-FAA-----ALI---I-SFFLML-IC-SC-SY-S-- 26
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XP_002273659.2_V.vinifera 1 MASHIS-LTT-----A-SL---I-V-FLVL-LPIS----- 22
XP_002311374.1_P.trichocarpa 1 MAELFT-STT-----IATI---IASLILL-LVPI SC-SSP-- 29
XP_008458324.1_C.melo 1 MGEYDM-SII-----TAAA---VSYL IILH-LPIHC-NAI--- 29
XP_003594696.1_M.truncatula 1 MAPNYV-NRV-----TASI---V-VLHAFI-ILTQI-SC-S-- 28
XP_010269493.1_N.nucifera 1 MATEFT-YRL-----SLL---L-FLFTR-LSAGS-NL-QV-- 28
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XP_015167984.1_S.tuberosum 1 MILLV-----SFL---L-ILHLLS-S-SC-D----- 19
XP_004240220.1_S.lycopersicum 1 MILLV-----SLL---L-LILHLLS-S-SC-D----- 19
XP_016461771.1_N.tabacum 1 MRLAQF--S-----ALF---F-LLLQLPSLT-YC-IE-AA-- 26
XP_006838114.2_A.trichopoda 1 MAMPSY-FSL-----SI---I-LFLFSH-QALAE-T----- 24
NP_191832.1_A.thaliana 1 MF-----K-----CL---V-LVLVIA-VDANP-AK----- 20
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XP_002965677.1_S.moellendorffii 1 MGLIFG-TSS-----V-VV---L-ILLFSG-FFVSY-AH-DE-- 28
XP_002519269.1_R.communis 1 MALPIS-TD-----IAL-----LILL-LVPI SY-SYP-L-- 25
XP_008353161.1_M.domestica 1 MATFTY-ATT-----TAI-----VFLIL-LPLSC-SSESI-- 27

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32-----VLF-----AS-----AKFPKSKDADLLEFALNLEY 56
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28 DMDNEWA-----R--N-RGFFYV-GTGGGVV---GGLLPQSDVDLLEFPLNLEY 68
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24-----V-----VA-----TKETTLSDVDLLEFPLNLEY 46
45-----SVF-----IA-----SASASESDVDLLEFPLNLEY 69
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29 EACGEV-----S-SAAF-----AP-----KQDVTDPDKKLLAFPLNLEY 61
26 N-----ILLDV-----LA-----KSSIPQSDVDLLEFPLNLEY 53
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LOC\_Os05g05920.1\_O.sativa 145 RFAIDLSDAVFAVMDDAMATRLEPPFDPYASSVNFLLASYILPHITAS-----AAAS 198

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Qt13-62\_O.thomaeum 204 LAVESADDVAIRTLLEYRGMARVPS-S-G-VGVAELTAQISELRNELGR-RGVKDEGLVY-MPGQGGPEGI 269

XP\_006393503.1\_E.salsugineum 194 LGVESGQDAVIRALLYARATHIYHP-Y-G-VTVAEFTDRISDLRNLGK-AGVKDEGLVY-PRAMGAEGQ 258

XP\_003579663.1\_B.distachyon 201 LGVESADDVAIRTLLEYRGLSRVAS-Y-G-VGVAEVTAAHISELRNELGR-RGVKDEGLVY-APGEGPEGQ 265

XP\_002447761.1\_S.bicolor 208 LAVESADDVAIRTLLEYHGTARVSS-Y-G-VGVAEVTAAHISELRNELGR-RGVKDEGLVY-APELGPEGL 272

XP\_003542185.1\_G.max 194 LGVESGQDAVIRALLYERKEQLVPP-Y-G-VAVEEFTNRISILRSKLGK-RGLKDEGLVY-PTGLGAEK 258

BAJ94922.1\_H.vulgare 202 LGVESADDVAIRALLYERGLSRVAS-Y-G-VGVAEVTAAHISELRNELGR-RGVKDEGLVY-APGQGGPEGQ 266

XP\_015634158.1\_O.sativa 206 LGVESADDVAIRALLYERHGLSRVAS-Y-G-VGVAELTAHISELRNLVGR-KGVKDEGLVY-APGQGGPEGQ 270

Cp13-62iso1\_C.plantagineum 189 LAVEAGQDAIRALLYERATDKVEP-Y-G-ITVAEFTNKISELRNLGK-KGVKDLGLIY-EPELGAEGK 253

Cp13-62iso2\_C.plantagineum 190 LAVEAGQDAIRALLYERATDKVEP-Y-G-ITVAEFTNKISELRNLGK-KGVKDLGLIY-EPELGAEGK 254

Lb13-62\_L.brevioides 186 LGVESGQDAVIRALLYERKMEKVEP-Y-D-ITVAEFTNKISELRNLGK-KGVKDKGLIY-EPELGAEGK 250

Ls13-62\_L.subracemosa 188 LGVESGQDAVIRALLYERALKKVRP-Y-G-ITVAEFTNRISDLRNLGK-KGLKDKGLIY-EPELGAEGK 252

NP\_564518.1\_A.thaliana 193 LGVESGQDAVIRALLYARAAHIYYP-Y-G-VTVAEFTDQISELRNLGK-AGVKDEGLVY-PKFMGAEGQ 257

XP\_002273659.2\_V.vinifera 181 LGVESGQDAVIRALLYERKAAKHP-Y-G-ITVAEFTYRISDLRNLGK-SGLKDEGLVY-PPVFGAEGK 245

XP\_002311374.1\_P.trichocarpa 194 LAVESGQDAVIRGLLYEYALIRLHP-Y-G-ITVAEFTNRISDLRNLGK-EGIKDEGLVY-PKFGAEGK 258

XP\_008458324.1\_C.melo 191 LGVESGQDAVIRALLYQRAAEKVEP-Y-G-VTVAEFTNRISDLRNLGK-AGIKDEGLVY-PKFGAEGK 255

XP\_003594696.1\_M.truncatula 189 LGVEAGQDAVIRTLLEYRRAKVEP-Y-G-VTVAEFTNRISDLRNLGK-AGIKDEGLVY-PKFGAEGK 255

XP\_010269493.1\_N.nucifera 203 LAVEGQDAVIRHLYYERAGEIYHP-Y-N-YTVAEFTIRISELRNLGK-AGIKDEGLVY-PPELGAENR 267

NP\_001150304.1\_Z.mays 211 LAVEAGQDAVIRLLYQRAADAVP-Y-QG-HVTVAEFTNRISDLRNLGK-CBAGKDEGLVY-DRRQGAENR 277

XP\_015167984.1\_S.tuberosum 183 LGVESGQDAVIRALLYERGRENVEP-Y-G-ITVAEFTNRISDLRNLGK-QGIKDEGLVY-PKFGAEGK 247

XP\_004240220.1\_S.lycopersicum 183 LGVESGQDAVIRTLLEYRGENVEP-Y-G-ITVAEFTNRISDLRNLGK-QGIKDEGLVY-PKFGAEGK 247

XP\_016461771.1\_N.tabacum 196 LGVESGQDAVIRTLLEYRQRAIEKVEP-Y-G-IPVAEFTSQISELRNLGK-QGIKDEGLVY-PKFGAEGK 260

XP\_006838114.2\_A.trichopoda 187 LAVESGQDAVIRALLYERAEDEMKVEP-Y-E-YTVAEFTDRISDLRNLGK-AGIKDEGLVY-PPELGAENR 251

NP\_191832.1\_A.thaliana 184 LGVESGQDAVIRTLLEYRQNEKVEP-Y-G-VTVAEFTNRISDLRNLGK-AGIKDEGLVY-PKFGAEGK 258

XP\_015632037.1\_O.sativa 250 LAVESGQDAVIRMLLEFHRRETVSP-Y-G-ATVAEFTDRISDLRNLGK-CGVKDEGLVY-PELGAEGK 314

LOC\_Os05g05920.1\_O.sativa 199 LAVEAGQDAVIRMLYERAEDEVYAP-Y-KG-RYVAEFTNRISDLRNLGK-CBAGKDEGLVY-DRRQGAENR 265

XP\_003594692.1\_M.truncatula 185 LGVEAGQDAVIRTLLEYRRELKVEP-Y-G-VSVEEFTNRISDLRNLGK-AGIKDEGLVY-PPELGAENR 244

XP\_003546306.2\_G.max 207 LGVESGQDAVIRTLLEYRQASLVYV-Y-K-VTVAEFTDRISDLRNLGK-AGVKDEGLVY-PRVQGAEGS 271

XP\_011071364.1\_S.indicum 185 LGVEAGQDAVIRALLYERAFVYVWP-Y-P-YTVAEFTYRISDLRNLGK-DGLKDEGLVY-VPVQGAEGS 249

XP\_002965677.1\_S.moellendorffii 201 LGVESGQDAVIRTLLEYRQKDTVEP-Y-K-LTVAEFTYRISDLRNLGK-DBLKDEGLVY-PKFGAEGK 266

XP\_002519269.1\_R.communis 191 LAVESGQDAVIRTLLEYRAIEKVEP-Y-K-ITVAEFTDRISDLRNLGK-NBNGKDEGLVY-AKERGAEGQ 255

XP\_008353161.1\_M.domestica 193 LGVESGQDAVIRALLYQRAELKVEP-Y-G-ITVAEFTNRISDLRNLGK-XGLKDEGLVY-PKHLGAEGK 257

NP\_001149373.1\_Z.mays 270 TVGNIIAGDHLSLAYDRTPPEELRIVYVSGSNGSAHQGGFFPQSGADGRIARGLL-----A- 322

Qt13-62\_O.thomaeum 270 TQGNVIAGDHLSLAYDRTPPEELRIVYVSGSNGSQAQGGFFPQSGADGRIARFIIY-----A- 323

XP\_006393503.1\_E.salsugineum 259 VAGNVLVGDKLSLAFDRTPPEELRIVYVSGSNGSVPGGFYPPKADGRIAKSYLV-----K-V- 312

XP\_003579663.1\_B.distachyon 266 TVGNIIAGDRVSLAYDRTPPEELRIVYVSGSNGSVPGGFYPPKADGRIARGLL-----M- 318

XP\_002447761.1\_S.bicolor 273 TVGNVIAGDHLSLAYDRTPPEELRIVYVSGSNGSQAQGGFFPQSGADGRIARGLL-----A- 325

XP\_003542185.1\_G.max 259 VRGNIIAGDVNSLAYDRTPPEELRIVYVSGSNGSDEHVRGGFFYPPKADGRIARGLL-----M- 311

BAJ94922.1\_H.vulgare 267 TVGNIIAGDRVSLAYDRTPPEELRIVYVSGSNGSQAQGGFFPQSGADGRIARGLL-----M- 319

XP\_015634158.1\_O.sativa 271 TVGNIIAGDRVSLAYDRTPPEELRIVYVSGSNGSQAQGGFFPQSGADGRIARGLL-----A- 323

Cp13-62iso1\_C.plantagineum 254 ISGNVLADGDKNSLAFPRTPPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----V- 318

Cp13-62iso2\_C.plantagineum 255 ISGNVLADGDKNSLAFPRTPPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----V- 319

Lb13-62\_L.brevioides 251 TSGNIIAGDKNLSLAFPRTPPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----V- 312

Ls13-62\_L.subracemosa 253 TAGNVLAGDKNLSLAFPRTPPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----V- 315

NP\_564518.1\_A.thaliana 258 VIGNVLVGNELSLDFRTPPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----V- 315

XP\_002273659.2\_V.vinifera 246 SRGNVLADGDKLSLAFYARKPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----L- 303

XP\_002311374.1\_P.trichocarpa 259 IRGNVLADGDEYSIGYARTPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----S- 313

XP\_008458324.1\_C.melo 256 IRGNVLADGDKLSLAFYARKPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----K- 310

XP\_003594696.1\_M.truncatula 248 FSGNIIADGDKNSLAFYARKPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----T- 302

XP\_010269493.1\_N.nucifera 268 TCSNIIADGDKNSLAFYARKPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----T- 322

NP\_001150304.1\_Z.mays 278 TISNIIAGDGEDSLGFRTPPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----T- 332

XP\_015167984.1\_S.tuberosum 241 IRGNIIAGGKYSLSYDRTPPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----L- 299

XP\_004240220.1\_S.lycopersicum 248 IRGNIIAGGKYSLSYDRTPPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----L- 299

XP\_016461771.1\_N.tabacum 251 IKGNVLADGDKNSLAFYARKPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----G- 320

XP\_006838114.2\_A.trichopoda 262 TSGNIIADGDKNSLAFYARKPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----G- 305

NP\_191832.1\_A.thaliana 250 TISNIIADGDKNSLAFYARKPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----V- 317

XP\_015632037.1\_O.sativa 315 ICTNIIADGDKNSLAFYARKPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----V- 376

LOC\_Os05g05920.1\_O.sativa 266 TVSNIIAGDGEDSLGFRTPPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----T- 320

XP\_003594692.1\_M.truncatula 245 IGSTNIIAGDDESSLGFRTPPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----S- 299

XP\_003546306.2\_G.max 272 VTDNIIAGDKNLSLAFYARKPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----T- 327

XP\_011071364.1\_S.indicum 250 ASGNVLADGDKNSLAFYARKPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----L- 303

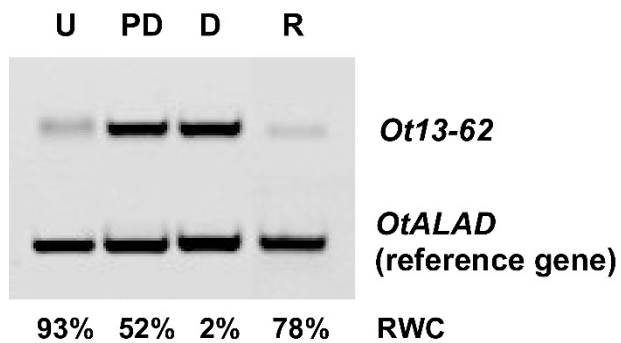
XP\_002965677.1\_S.moellendorffii 267 IEGNIIAGDKNLSLAFYARKPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----F- 325

XP\_002519269.1\_R.communis 256 VRGNVLADGDEYSIGYARTPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----G- 311

XP\_008353161.1\_M.domestica 258 VSGNIIAGDDESSLGFRTPPEELRIVYVSGSNGSQAQGGFFYPPKADGRIARGLL-----E- 312

**Supplementary Figure S3** Alignment of amino acid sequences of 13-62 protein homologs in selected Embryophyta.

## Supplementary Figure S4



**Supplementary Figure S4** RT-PCR analysis of *Oropetium thomaeum* 13-62 (*Ot13-62*) expression during dehydration and rehydration. cDNA was prepared from untreated (U), partially dehydrated (PD), desiccated (D), and 24 h rehydrated (R) leaves and amplified with primers specific for the *Ot13-62* transcript (*Ot13-62\_RT-PCR\_F* and *Ot13-62\_RT-PCR\_R*, Supp. Table 1). Transcript expression of the aminolevulinic acid dehydratase (ALAD) was analysed as a control for cDNA preparations. Relative water content (RWC) of leaves used for cDNA preparations is indicated.

## Supplementary Figure S5



**Supplementary Figure S5** Sequence of the transposable element identified in the *Lb13-62* genomic locus. Putative terminal inverted repeat (TIR) sequences and transposase coding sequence are indicated in grey and light blue, respectively.



## Supplementary Figure S6

Cp13-62\_iso1 -----TGCTTCAAAAAATCTTCTTTTGCTC**CATTG**CACACTCACTGACGATG  
 Cp13-62\_iso2 -----TGCTTCAAAAAAGCTTCTTTTGCTC**CATTG**CACACTCACTGACGATG  
 Ls13-62 CTCCCACCTTCTTTTGCTTCAAAATAACTTCTTTTGCTCCATTTTACACT**CCGAC**GATG  
 Lb13-62 -----

Cp13-62\_iso1 AATACATTGAAGAAGACAAGCACTAT**AAAAGGG**TCCATTTTTTGAGCAGCTTTCATATT  
 Cp13-62\_iso2 AATACATTGAAGAAAAC-----TAT**AAAAGGG**-CCCAATCTTGCAGCAGCTTCCATATT  
 Ls13-62 AATACATTGAAGAAGACAAGCA-----AG-----CACTAGAGCAGATATTTCCATACT  
 Lb13-62 ---CATCTAGATCA**ACGT**-----ACGAGTG---TTTACGACATGAAAATTT**AGA**--  
 \*\*\* \* \*\* \*\* \* \*\* \* \*\* \*

Cp13-62\_iso1 G-GCAA-ACCCTAAAATCTCCATTATCGCCTCTGAAAT**AGATTG**TT**CAACTG**TAAAA  
 Cp13-62\_iso2 G-GCAA-ACCCTAAAATCTCCATTATCGCCTCGTAAAT**AGATTG**TT**CAACTG**TAGAA  
 Ls13-62 CCGCAGCAGCTTTCCAATT**CAATG**GGCAGACCCTTAAATTAGATT**CAACTG**TTAGAAGTA  
 Lb13-62 **AA**GAAAAAGCTTATAGACAAAACGAG-ATATATTGAAAATAAATTATATAAATTCGGTGA  
 \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

Cp13-62\_iso1 AG--ATGTAACCTTTTTAACTTTGCTCTAATGACTCCGTGA----AA**ACGT**CGTCAATGAT  
 Cp13-62\_iso2 **AG**--ACGCAGCTTTTTAACTTTCTCTAATGACT**ACGT**GAGGAAAA**ACGT**CGTCAATGAT  
 Ls13-62 TGTAACCTCACTTTTT**CACTG**-TACTGATGAG**CAGCTG**AGCAACAGAGCGGTGAAAGAT  
 Lb13-62 GATCATGTATTTTCCCGTAT-GTATTATT---TCTATTATCA**CATTG**TAATGAAATTT  
 \* \*\* \* \* \* \* \* \* \* \* \* \* \* \* \*

Cp13-62\_iso1 TCAACGATTGACA---GAAGTTCAGACAA**AAACCA**CCAAAGTAAAA-----  
 Cp13-62\_iso2 TCAACGATTAACA---GAAGTTCAGATAG**AAACCA**CCAAAGTAAAAGAGCTATGCCAAGA  
 Ls13-62 TCACCGAT**TAACA**AGGAGGTTTTCAGACAAAAACAACCGA-GTAAAG-----  
 Lb13-62 TGATCATATCATATTTTAGTTATGAATAATAATATTTTTTTCTGAC-----  
 \* \* \* \* \* \* \* \* \* \* \* \* \*

Cp13-62\_iso1 -----TAGTCGCTGAAGGGGTGATATTG  
 Cp13-62\_iso2 TTCCA**ACCCA**GTAAGAGCTCTGCTATGCTAATTGCTAATCACTGCAGGGGTGATATTG  
 Ls13-62 -----  
 Lb13-62 -----AGTAGTGAAGTCT

Cp13-62\_iso1 TAATCAACGCATAGT-----TACATGCTTTCA--GTAAAATCGAAATATTACAT  
 Cp13-62\_iso2 TAATTAGATAATAGTAATAAAGGAGTACATGCCATCAATAGTAAAATCGAAATATCACAT  
 Ls13-62 -----C-----TCA-----**ACCCA**-----  
 Lb13-62 ATTTTCAAATAT-----TAAATGGCCTGA-----**AACTTA**ATTGCCCGTT  
 \* \* \*\* \* \*

Cp13-62\_iso1 TCTTACATCTCTAACTTCAAAATCAAACTTTTAATATTGTCTTTTTTCTTTTCAAATT  
 Cp13-62\_iso2 TCTTACATCTCCAACCTTCAAACTTTTAATCTTG---TCTTCTTTTCTTTTCAAATT  
 Ls13-62 -----TCTAACTCC-----TTT**CCTATTTAGGT**-  
 Lb13-62 CATTATATTATGTACGC**ACGT**-----CGGTCAATTA  
 \* \*\* \* \* \*\* \* \*

Cp13-62\_iso1 TGTGTCTTAT---CCACTC**AGAAAG**ATTGAATGTTATTAAACGAATCTATTAGGCTTTCT  
 Cp13-62\_iso2 TGTGTCTTATATCCAACCTC**AGAAAG**ATTGAATGTTATTAAATGAATCTATTAGGCTTT--  
 Ls13-62 -----CAATAAATTAGTACACTAATAG-----TAAAAAGCTTT--  
 Lb13-62 TTT-----TCAAAAT**ACTATTA**TTTCAAGAAATAACCTCCCTAG**ACGT**GTA  
 \* \* \* \* \* \* \* \* \* \* \* \* \*

Cp13-62\_iso1 ATTTAGGCTTTTTTATCTCTGTGAA-ATTTATTTTTATTAATGAAAATTAGCGTTTCGAA  
 Cp13-62\_iso2 -----TTATCTCTGTGAA-ATCTATTTTTATTAATGAAAATTAGCGTTTCGAA  
 Ls13-62 -----CTCTCTAA-AATGAGGTT-----AGACTGAGAAATTACAA  
 Lb13-62 -----ATGTAATAATAACAGTGT**ATGTATCT**TAGACGAAACGGTTCGAA  
 \* \* \* \* \* \* \* \* \* \* \* \* \*

Cp13-62\_iso1 AAATAACTTCAAAATATCGTCTTTTGGCCGA-TATTATTTAGAGAACAACAAAAA---  
 Cp13-62\_iso2 AAATAACTTCAAAATATCGTATTTTGGCTTAGTATTATTAGAGAGAAACAAAAAGAA  
 Ls13-62 AAGTA--TATAGAGT-----TCAGTTATAGAGCGA-----  
 Lb13-62 AGAGTTCTTAATGACAACT-----**CCCTCGTCATA**ACTTGACGGACAATT---**TAAA**  
 \* \* \* \* \* \* \* \* \* \* \* \* \*

Cp13-62\_iso1 -AAGAGGTCGTATGTATCTAGC-AAGGATCTCGACTAAAAACA**CTCGTCAT**CGGTACGAC  
Cp13-62\_iso2 AAAGAGGTCGTATGTATCTAAC-AAGGATCTCGACTAAAAACA**CTCGTCAT**AGGCACGAC  
Ls13-62 --AGATT**CATGTG**TACCCCTCTAATAATAAAGGTCAAAAC-----TGTA**ACTTC**CGCG  
Lb13-62 **TTTAACT**--CACT**CAACTG**TC--GTAATCCCATCTCGAATTTTCTT**CCAAGC**CTTACG  
\* \* \* \* \*

Cp13-62\_iso1 GGTTCACTC-TGTCC**TAATCT**TATCTCTCGACATTTCTAGTTAACGCATTTGAATATATTT  
Cp13-62\_iso2 GGTTCACTC-TGTCC**TAATCT**TATCTCTCG**ACGT**TTCTAGTTAACGC**ACTGAATATATTT**  
Ls13-62 GGC-----C-TGTCCAAATCCCATCTCT-GACTTTTCTT-CTAACGCTTCGA**ACTCA**---  
Lb13-62 AGCCATGCGTAT**ACGT**ATTCCAC**ACACAAG**GCACTTACTTTGCAACAAA-ACAC--  
\* \* \* \* \*

Cp13-62\_iso1 **AATCGAC**GCAGTCAATGTTATCATCGCAATGCATA**CATATG**TCCTCCCAACTAATCACAA  
Cp13-62\_iso2 **AATCGAC**GCAGTCAATGTTGTCATCACAATACATA**CAGATG**TCCTCCCAACTAATCACAA  
Ls13-62 ----**ACGTAA**TCCATCGTTT**GAC**--**TGACAGGA**AAAGGCAACCTCGTAATTTG-----  
Lb13-62 -ATCACCTTAATC**ATCATCCT**TCAAAAATAAA**AAAAAAGAAA**CATAATTTA-----  
\* \* \* \* \*

Cp13-62\_iso1 CCCTTAAAGCTATTACTCGTCTGAAAATAATCCACTTTTCATT**CAACCGCC**TCGCCAC  
Cp13-62\_iso2 CCCTC**CAAAGCTATTACTCGTCTGAAAATAATCCACTTTTCACTACAACCACTTTCCAC**  
Ls13-62 ----CAA-----TTGCTGAGAA**ATCAACCA**CCTTTCATTACAAACATTTGACAC  
Lb13-62 -----CTCGTC----AGCCATCCACCTTTC**ACTACA**GCCACCTCTCCAC  
\* \* \* \* \*

Cp13-62\_iso1 GATCCT**CCGT**CGAAAGC**CCGA**CAGGTGTAGAACCTTGCTCAAACCTATCCGAGCT**TATAAA**  
Cp13-62\_iso2 GATCCTCCGCGCAAGC**CCGA**CAGCTGTAGAACCTTGCTGAAACCTAGCCGAGCT**TATAAA**  
Ls13-62 GATCTTTCGGCGCAGCCTG**ACAGGTG**TCGAAACTTGCGGACACCTATTTCGAGCT**TATAAA**  
Lb13-62 GATCCTTCCGCCACAGC**CCGA**CAGCTGTAAAAACTTTTCGGACACCTATCGAAGCT**TATAAA**  
\*\*\*\*\*

Cp13-62\_iso1 **T**AGCAGCCATGCAACTAAGCGAAGA--CATAGAAAAGAAAAATAAAAAAAAAAAAGCCATC  
Cp13-62\_iso2 **T**AGCAGCCATGCAACTAAGCGAAGAACCAGAGAAAAGAAAAATAATAGAAAAAAAGCCATC  
Ls13-62 **T**TGCATGTCTCAA--AGAGCACGA--CCAGCAAAGAAA-----GAAAACGAACCAT-  
Lb13-62 **T**AGGAGCAAC-CAACAAAGCAACA---CCAGAAACGACAG---AAAACAAGAGCATTT  
\* \* \* \* \*

Cp13-62\_iso1 TTCACACACAGCAGCAAAT**CATG**  
Cp13-62\_iso2 TTCACACACAGCAGCAAAT**CATG**  
Ls13-62 TT**CACGCGCCGGC**---AT**CATG**  
Lb13-62 TTCAAGCCGAGCATCAAT**CATG**  
\*\*\*\* \*

Name	Consensus sequence	Name	Consensus sequence
<b>TATA Box</b>	TATAAAT	<b>BPC1</b>	AGAAAG
<b>ABRE</b>	ACGT	<b>ARR10</b>	AGATT <b>CG</b>
<b>DRE (DREB1B)</b>	CCGAC	<b>GAMYB</b>	CAACCG <b>CC</b>
<b>MYB1AT</b>	WAACCA	<b>HSFA1E</b>	CCGTC <b>G</b>
<b>DRECR</b> T <b>CO</b> REAT	RCCGAC	<b>MYB-15</b>	TAACAA
<b>CBFHV</b> -CRT/DRE	ATCGAC	<b>ASR-1</b>	ACCCA
<b>DPBF</b>	ACACAAG (ACAC <b>NG</b> )	<b>AGL15</b>	TTTCTATTTAG <b>GT</b>
<b>MYCCONS</b> USAT	CANNTG	<b>NAC6</b>	ACGTAA
<b>MYC (erd1)</b>	CATGTG	<b>ATH1</b>	TGACAG <b>GA</b>
<b>MYC (rd22)</b>	CAGCTG	<b>At4g36620</b>	ATCAAC <b>CA</b>
<b>ATHSFA1D</b>	ACTACA	<b>ERF13</b>	CACGCGCCG <b>CGCA</b>
<b>DOF</b>	AAAAAAG <b>AAA</b>	<b>OCSBF-1</b>	CAC <b>GT</b>
<b>TEIL</b>	ATGTAT <b>CT</b>	<b>HSFA4A</b>	ACTAT <b>T</b>
<b>HBP-1a</b>	CCCTCGTCAT/CACTCGTCAT	<b>GT-1</b>	TAAATTTT <b>AACT</b>
<b>PBF</b>	AAAAG <b>GG</b>	<b>At5g54070</b>	CCA <b>ACG</b>

**Supplementary Figure S6** Putative *cis*-acting elements identified in the 13-62 promoter. 13-62 promoter sequences were aligned with ClustalX software. Putative abscisic acid (ABA)- and dehydration-responsive and ABA were identified from

promoter sequences and are indicated on the sequence alignment. The translational start codon is indicated in bold.