

#### Supplementary Figure S1. CEPR2 interacts with PYR/PYLs in yeast.

The interaction of CEPR2 with all PYLs were detected in yeast, and then the absorbance values of yeast cultured in -WLUAH liquid medium were measured by spectrophotometer at  $OD_{600}$ . Three replicates were conducted. Error bars indicate SD (n = 18), p < 0.05. One-way ANOVA Duncan's test was used for statistical analysis. Statistical differences are indicated by lowercase letters and different letters represent different significance. WLUAH: Trp, Leu, Ura, Ade and His.



## Supplementary Figure S2. CEPR2 is localized in plasma membrane.

The GFP fluorescence of 35S::*CEPR2-GFP* transgenic protoplast was imaged by confocal microscopy at 488 nm. 35S::*GFP* was used as control.

## Α



#### Supplementary Figure S3. Identification of different mutants and CEPR2-OE lines.

(A) The protein structures of CEPR2, PXY and PXL2. SP, signal peptide; TM, transmembrane.

(B) Identification of the different T-DNA insertion mutants by RT-PCR.

(**C** and **D**) The expression levels of *CEPR2* in different OE lines were detected by RT-PCR and qRT-PCR. Error bars in (**D**) indicate SEM (N = 3). \*\*\*P < 0.001 (Student's *t*-test).



# Supplementary Figure S4. CEPR2 does not regulate the transcript levels of PYL4.

The expression levels of *PYL4* in OE#9, WT and *cepr2/pxy/pxl2* lines grown on 1/2 MS or 1 µM ABA for 7 d were analyzed by qRT-PCR.



# Supplementary Figure S5. Anti-PYL4 antibody can specifically recognize PYL4.

The specificity of anti-PYL4 provided by Dr. Xie was examined by western blot with 7-day-old seedlings of py/4 and WT grown on 1/2 MS.





# Supplementary Figure S6. Identification of the interaction domain of CEPR2 and PYLs by LCI.

(A) PYL1, PYL2, or PYL4 interacted with full-length or LRR-truncated CEPR2 in LCI assay. LCI, firefly luciferase complementation imaging.
(B) PYL1, PYL2, or PYL4 interacted with full-length or KD-truncated CEPR2 in LCI assay. KD, kinase domain.

(C-E) Full-length or LRR-truncated CEPR2 interacted with full-length or truncated PYL1, PYL2 or PYL4 in LCI assay.



#### Supplementary Figure S7. CEPR2 phosphorylates PYL2 in vitro.

**(A)** *In vitro* kinase assays showed that PYL2 was phosphorylated by CEPR2<sup>KD</sup>, while the phosphorylated PYL2 was disappeared under the ABA treatment condition. The W.B. assay was used to shown the loading control and un-phosphorylated PYL2. 50 μM phos-tag was used to isolate the phosphorylated forms of PYL2 in this kinase assay. W.B., western blot.

**(B)** CIAP successfully removed the phosphoryl group of PYL2 in this kinase assay. CIAP, Calf Intestinal Alkaline Phosphatase.

#### The phosphorylation mass spectrometry protocol

Protein digestion was performed using FASP method with modifications (*Nature Methods* 6, 359 - 362 (2009). Briefly, 100  $\mu$ g protein was dissolved with 50 mM ABC (NH<sub>4</sub>HCO<sub>3</sub>), reduced with DTT (dithiothreitol) at 56°C for 45 min, and alkylated with IAM (iodoacetamide) at room temperature for 30 min in the dark. The solution was transferred into a 10K ultrafiltration tube (Vivacon 500, Satrorius), centrifuged at 14,000 g for 20 min. 50 mM ABC solution was used to wash the protein for 3 times. 2  $\mu$ g trypsin was added in 50  $\mu$ L 50 mM ABC and incubated at 37°C overnight. The ultrafiltration tube to wash the digested peptide into the collection tube. The collected solution was diluted with 0.1% FA for nanoLC-MS analysis.

NanoLC separation was achieved with a Waters (Milford, MA, USA) nanoAcquity nanoHPLC. The trap column was Thermo Acclaim PepMap 100 (75  $\mu$ m  $\times$  2 mm, C18, 3  $\mu$ m). The analytical column was homemade with 100  $\mu$ m I.D. fused silica capillary (Polymicro) filled with 20 cm of C18 stationary phase (Phenomenex, Aqua 3  $\mu$ m C18 125A). A gradient elution program was used, with mobile phase increases linearly from 1% B to 35% B in 65 min. Mobile phase A: 0.1% FA in water, B: 0.1% FA in acetonitrile.

Nanospray ESI-MS was performed on a Thermo Q-Exactive high resolution mass spectrometer (Thermo, Waltham, MA, USA) with 70,000 MS scan resolution and 17,500 MS/MS scan resolution and top-10 MS/MS selection.

Raw data from the mass spectrometer were preprocessed with Mascot Distiller 2.4 for peak picking. The resulted peak lists were searched against database using Mascot 2.5 search engine. The search parameters are: Fixed modifications: Carbamidomethyl (C), Variable modifications: Oxidation (M) and Phosphorylation (S, T, Y). Enzyme: Trypsin, Maximum missed cleavages: 2, MS mass tolerance: 10 ppm, MSMS mass tolerance: 0.02 Da. Scaffold PTM was used to evaluated phosphorylation sites of the Mascot search results using Ascore algorithm.

Protein View: AT2G38310.1

| Symbols: PYL4, RCAR10 | PYR1-like 4 | chr2:16050251-16050874 FORWARD LENGTH=207

 Database:
 TAIR10

 Score:
 34253

 Nominal mass (M<sub>2</sub>):
 22706

 Calculated pI:
 6.43

Sequence similarity is available as an NCBI BLAST search of AT2G38310.1 against nr.

#### Search parameters

Phosphorylation mass spectrometry

 MS data file:
 G:\UserData\Public\Data\2018\03\20180328-Q1\shandong-4.raw

 Enzyme:
 Trypsin: cuts C-term side of KR unless next residue is P.

 Fixed modifications:
 Carbamidomethyl (C)

 Variable modifications:
 Oxidation (M), Phospho (ST), Phospho (Y)

#### Protein sequence coverage: 98%

Matched peptides shown in **bold red**.

1 MLAVHRPSSA VSDGDSVQIP MMIASFQKRF PSLSRDSTAA RFHTHEVGPN 51 QCCSAVIQEI SAPISTVWSV VRRFDNPQAY KHFLKSCSVI GGDGDNVGSL 101 RQVHVVSGLP AASSTERLDI LDDERHVISF SVVGGDHRLS NYRSVTTLHP 151 SPISGTVVVE SYVVDVPPGN TKEETCDFVD VIVRCNLQSL AKIAENTAAE 201 SKKKMSL

Query Start - End Observed Mr(expt) Mr(calc) M Score Expect Rank U Peptide ppm 230199 42 - 721196.9181 3587.7325 3587.6691 17.7 0 66 -007 U R.FHTHEVGPNQCCSAVIQEISAPISTVWSVVR.R + Phospho (ST) 12258 82 - 101733.6701 2197.9885 2196.9987 450 1 47 4.5e-005 1 U K.HFLKSCSVIGGDGDNVGSLR.O + Phospho (ST) 550.5055 2197.9928 2196.9987 U K.HFLKSCSVIGGDGDNVGSLR.Q + Phospho (ST) 22569 82 - 101 452 1 19 0.017 1

> The final result, the phosphorylation sites are marked in red

> > 54

MLAVHRPSSAVSDGDSVQIPMMIASFQKRFPSLSRDSTAARFHTHEVGPNQCC<mark>S</mark>AVIQEISAPISTVWSVVRRFDNPQA 86 88 PYL4 YKHFLK<mark>SCS</mark>VIGGDGDNVGSLRQVHVVSGLPAASSTERLDILDDERHVISFSVVGGDHRLSNYRSVTTLHPSPISGTVVV

ESYVVDVPPGNTKEETCDFVDVIVRCNLQSLAKIAENTAAESKKKMSL

#### Supplementary Figure S8. Identification of the phosphorylation sites of PYL4 in phosphorylation mass spectrometry.

The protein samples incubated in kinase buffer for 1 h were separated by SDS-PAGE to isolate the phosphorylated PYL4. Subsequently, the target proteins were cut and analyzed by phosphorylation mass spectrometry, three putative phosphorylation sites, S54, S86 and S88, were finally identified.



# Supplementary Figure S9. CEPR2-mediated phosphorylation optimizes the balance of growth regulation and stress response in Arabidopsis.

The phosphorylation of PYR/PYLs by CEPR2 promotes the ubiquitination of PYR/PYLs by RSL1, resulting in the repressed ABA signaling. However, ABA-bound PYLs successfully prevent this process and activate ABA signaling during times of stress. Taken together, plants utilize this phospho-regulatory mechanism to optimize the balance of growth and stress responses.

# Supplementary Table S1. Primers used in this study

| Purpose | Name                      | Sequence (5'-3')   |
|---------|---------------------------|--|
|         | CEPR2-LRR F               | TCTAGAATGACCGTTGAGAAACAAGCTCT                                      |
|         | CEPR2-LRR R               | CTCGAGTGTTCCATCGAGTGAACTATTCCTC                                    |
|         | CEPR2-KD F                | CTCGAGCGTTACAGAGTTGTGAAGATACGTG                                    |
|         | CEPR2-KD R                | GGTACCTACTGTAATCTTTCCAGTTGTGTC                                     |
|         | CEPR2-FL F                | GGTACCATGACCGTTGAGAAACAAGCTCT                                      |
|         | CEPR2-FL R                | CCCGGGTACTGTAATCTTTCCAGTTGTGTC                                     |
| Co-IP   | RSL1 F                    |  |
|         | RSL1 R                    |  |
|         | CAR4 F                    |  |
|         | PYL2 F                    |  |
|         | PYL2 R                    | TTCATCATCATGCATAGGTGCAGATG   |
|         | PYL4 F                    | CACCATGCTTGCCGTTCACCGT   |
|         | PYL4 R                    | CAGAGACATCTTCTTGCTCT   |
|         | YFP <sup>C</sup> -PYL1 F  |  |
|         |                           |  |
|         |                           |  |
| BIFC    | YFPC-PYL9 F               |  |
|         | YFP <sup>c</sup> -PYL9 R  | CTGAGTAATGTCCTGAGAAGCC   |
|         | YFPN-CEPR2 F              | CACCATGTCGAGAAGACCAGACC  |
|         | YFP <sup>N</sup> -CEPR2 R | TACTGTAATCTTTCCAGTTGTGTC   |
|         | cLUC-CAR4 F               | GGTACCATGACAACGGCGTGTCCG   |
|         | cLUC-CAR4 R               | CTGCAGTCATAGACCCTTGGAGCCAG   |
|         | cLUC-PYL2 F               | GGTACCATGAGCTCATCCCCGGCC   |
|         | CLUC-PYL2 R               |  |
|         |                           |  |
| LCI     | cl UC-RSI 1 F             |  |
|         | cLUC-RSL1 R               | GTCGACTTACGAGAACCGTCTTACGAGT                                       |
|         | nLUC-RSL1 F               | GGTACCATGGAGGAAGATGACCTAAACCC                                      |
|         | nLUC-RSL1 R               | GTCGACCGAGAACCGTCTTACGAGT  |
|         | nLUC-CEPR2 F              | GGTACCATGTCGAGAAGACCAGACCTC  |
|         | nLUC-CEPR2 R              | GTCGACACTGTAATCTTTCCAGTTGTGTC                                      |
|         | Nub-CEPR2 F               |  |
|         | Nub-CEPR2 R               |  |
|         | Cub-CEPR2 F               |  |
|         | Nub-PYR1 F                |  |
|         | Nub-PYR1 R                | tccqccaccaccaaccactttgtacaagaagctgggtaTCACGTCACCTGAGAACCAC         |
|         | Nub-PYL1 F                | acaagtttgtacaaaaaagcaggctctccaaccaccATGGCGAATTCAGAGTCCTC           |
|         | Nub-PYL1 R                | tccgccaccaccaaccactttgtacaagaaagctgggtaTTACCTAACCTGAGAAGAGT        |
|         | Nub-PYL2 F                | acaagtttgtacaaaaaagcaggctctccaaccaccATGAGCTCATCCCCGGCC             |
|         | Nub-PYL2 R                | tccgccaccaccaccactttgtacaagaaagctgggtaTTATTCATCATCATGCATAGGTGCAGA  |
|         | NUD-PYL3 F                |  |
|         | Nub-PYL3 R                |  |
|         | Nub-PYL4 R                |  |
|         | Nub-PYL5 F                | acaagtttgtacaaaaaagcaggctctccaaccaccATGAGGTCACCGGTGCAAC            |
|         | Nub-PYL5 R                | tccgccaccaaccactttgtacaagaaagctgggtaTTATTGCCGGTTGGTACTTC           |
|         | Nub-PYL6 F                | acaagtttgtacaaaaaagcaggctctccaaccaccATGCCAACGTCGATACAGTTTCA        |
| MbSUS   | Nub-PYL6 R                | tccgccaccaccaaccactttgtacaagaaagctgggtaTTACGAGAATTTAGAAGTGTTCTCG   |
|         | Nub-PYL7 F                | acaagtttgtacaaaaaagcaggctctccaaccaccATGGAGATGATCGGAGGAGA           |
|         | NUD-PYL/ R                |  |
|         |                           |  |
|         | Nub-PYL9 F                |  |
|         | Nub-PYL9 R                |  |
|         | Nub-PYL10 F               | acaagtttgtacaaaaaagcaggctctcccaaccaccATGAACGGTGACGAAACAAAGAA       |
|         | Nub-PYL10 R               | tccgccaccaccaaccactttgtacaagaaagctgggtaTCATATCTTCTTCTCCATAGATTCTGC |
|         | Nub-PYL11 F               | acaagtttgtacaaaaaagcaggctctccaaccaccATGGAAACTTCTCAAAAATATCA        |
|         | Nub-PYL11 R               | tccgccaccaccaccactttgtacaagaaagctgggtaTTACAACTTTAGATGAGCCA         |
|         | NUD-PYL12 F               |  |
|         |                           |  |
|         | Nub-PYI 13 R              |  |
|         | Nub-ABI1 F                | ACAAGTTTGTACAAAAAAGCAGGCTCTCCAACCACCATGGAGGAAGTATCTCCGG            |
|         | Nub-ABI1 R                | TCCGCCACCACCACCACTTTGTACAAGAAAGCTGGGTATCAGTTCAAGGGTTTGCTCT         |
|         | Nub-ABI2 F                | ACAAGTTTGTACAAAAAAGCAGGCTCTCCAACCACCATGGACGAAGTTTCTCCTG            |
| 1       | Nub-ABI2 R                |  |

|       | Nub-SnRk22 F               | ACAAGTTTGTACAAAAAAGCAGGCTCTCCAACCACCATGGATCCGGCGACTAATTC           |
|-------|----------------------------|--|
|       |                            |  |
|       | Nub-SnRk2.2 R              | TCCGCCACCACCACCACTTGTACAAGAAAGCTGGGTATCAGAGAGCATAAACTATCTCTCC      |
|       | Nub-SnRk2.3 F              | ACAAGTTTGTACAAAAAAGCAGGCTCTCCAACCACCATGGATCGAGCTCCGGTGA            |
|       |                            |  |
|       | Nub-SnRk2.3 R              | ICCGCCACCACCACCACIIIGIACAAGAAAGCIGGGIAIIAGAGAGCGIAAACIAICICICCGC   |
|       | Nub-SnRk2.6 F              | ACAAGTTTGTACAAAAAAGCAGGCTCTCCAACCACCATGGATCGACCAGCAGT              |
|       |                            |  |
|       | NUD-SNRK2.6 R              | TCCGCCACCACCACTTTGTACAAGAAAGCTGGGTATCACATTGCGTACACAATCT            |
|       | Nub-ABI4 F                 | ACAAGTTTGTACAAAAAAGCAGGCTCTCCAACCACCATGGACCCTTTAGCTTCCCA           |
|       |                            |  |
|       | NUD-ADI4 R                 | TCCGCCACCACCACTTGTACAAGAAAGCTGGGTATTAATAGAATTCCCCCAAGATGGG         |
|       | Nub-ABI5 F                 | ACAAGTTTGTACAAAAAAGCAGGCTCTCCAACCACCATGGTAACTAGAGAAACGAAG          |
|       | Nub ABI5 P                 |  |
|       | Nub-ADIJ N                 |  |
|       | Nub-CAR1 F                 | acaagtttgtacaaaaaagcaggctctccaaccaccATGGAGAATCTTGTAGGTCTTCTTCG     |
|       | Nub-CAR1 R                 |  |
|       |                            |  |
|       | NUD-CARZ F                 |  |
|       | Nub-CAR2 R                 | tccgccaccaccaaccactttgtacaagaaagctgggtaCTAGAAAGCAACATCCTCCG        |
|       | Nub-CAR3 F                 |  |
|       |                            |  |
|       | NUD-CAR3 R                 | tccgccaccaccaccactitigtacaagaaagctgggtallACAAGCCIIIAGAACCGGGAA     |
|       | Nub-CAR4 F                 | acaagtttgtacaaaaaagcaggctctccaaccaccATGACAACGGCGTGTCCG             |
|       | Nub-CAR4 R                 |  |
|       |                            |  |
|       | NUD-CAR5 F                 | acaagtttgtacaaaaaagcaggctctccaaccaccATGATCGTTTCATTTCTCTATTTTTCTTC  |
|       | Nub-CAR5 R                 | tccgccaccaccactttgtacaagaaagctgggtaTCATAGACCCTTTCCGGGAA            |
|       | Nub-CAR6 E                 |  |
|       |                            |  |
|       | NUD-CARG R                 | tccgccaccaccaccactttgtacaagaaagctgggtaICAGAGICCACIACCACCIG         |
|       | Nub-CAR7 F                 | acaagtttgtacaaaaaagcaggctctccaaccaccATGGAGGAACTTGTAGGGCTTC         |
|       | Nub-CAR7 R                 |  |
|       |                            |  |
|       | NUD-CAR8 F                 |  |
|       | Nub-CAR8 R                 | tccgccaccaaccaactagtacaagaaagctgggtaTCAAAAATCGCTTGAACCAGTAAC       |
|       |                            |  |
|       | NUD-CAR9 F                 |  |
|       | Nub-CAR9 R                 | tccgccaccaccaaccactttgtacaagaaagctgggtaTTAGTCCAATCGTTTTGTCGGC      |
|       | Nub-CAR10 F                |  |
|       |                            |  |
|       | NUD-CARIU R                | tccgccaccaccactactagaaagaagaagagggallaggaalaggagaagagagag          |
|       | Nub-PYL1-1~131aa F         |  |
|       | Nub DVI 1 1, 121cc D       |  |
|       | NUD-FILI-I~IJIAA R         |  |
|       | Nub-PYL1-1~167aa F         | acaagtttgtacaaaaaagcaggctctccaaccaccATGGCGAATTCAGAGTCCTC           |
|       | Nub-PYI 1-1~167aa_R        |  |
|       |                            |  |
|       | NUD-PTLI-125~221aa F       |  |
|       | Nub-PYL1-125~221aa R       | tccgccaccaccaaccactttgtacaagaaagctgggtaTTACCTAACCTGAGAAGAGTTGTTG   |
|       | Nub-DVI 1-46~221aa E       |  |
|       |                            |  |
|       | NUD-PYL1-46~221aa R        | tccgccaccaccactactattgtacaagaaagctgggtaTTACCTAACCTGAGAAGAGTTGTTG   |
|       | Nub-PYL2-1~104 aa F        | acaagtttgtacaaaaaagcaggctctccaaccaccATGAGCTCATCCCCGGCC             |
| MbSUS | Nub-PVI 2-1~104 aa R       |  |
|       |                            |  |
|       | Nub-PYL2-49~190 aa F       |  |
|       | Nub-PYL2-49~190 aa R       | tccgccaccaccaaccactttgtacaagaaagctgggtaTTATTCATCATCATGCATAGGTGCAGA |
|       | Nub-PVI 2-84~100 aa E      |  |
|       |                            |  |
|       | Nub-PYL2-84~190 aa R       | tccgccaccaccactactttgtacaagaaagctgggtaTTATTCATCATCATGCATAGGTGCAGA  |
|       | Nub-PYL4-1~78 aa F         | acaagtttgtacaaaaaagcaggctctccaaccaccATGCTTGCCGTTCACCGT             |
|       | Nub-PVI 4-1~78 aa R        |  |
|       |                            |  |
|       | Nub-PYL4-1~163 aa F        | acaagtttgtacaaaaaagcaggctctccaaccaccATGCTTGCCGTTCACCGT             |
|       | Nub-PYL4-1~163 aa R        | tccgccaccaccaaccactttgtacaagaaggctgggtaGACGTAAGACTCGACAACGA        |
|       | Nub DVI 4 52~207 ap. E     |  |
|       |                            | acaaguuguacaaaaaaguagguucucaaccaccATGTTGCTCCCCCGTTATTCA            |
|       | Nub-PYL4-52~207 aa R       | tccgccaccaccaccactttgtacaagaaagctgggtaTCACAGAGACATCTTCTTGC         |
|       | Nub-PYL4-18~207aa F        | acaagtttgtacaaaaaagcaggctctcccaaccaccATGCAGATTCCGATGATGATCGC       |
|       | Nub-PVI 4-18~207 ap. P     |  |
|       |                            |  |
|       | NUD-CAR2-1-100 aa F        |  |
|       | Nub-CAR2-1-100 aa R        | tccgccaccaaccaactagtacaagaaagctgggtaTTGGATTCTGATGGCTTCAA           |
|       | Nub-CAR2-74-174 22 F       | acaantitotacaaaaaancannototocaaccaccATGGACAGGTTCTCAAGGGATGA        |
|       |                            |  |
|       | Nub-CAR2-74-174 aa R       | tccgccaccaccactttgtacaagaaagctgggtaCTAGAAAGCAACATCCTCCG            |
|       | Nub-CAR7-1-100 aa F        | acaagtttgtacaaaaaagcaggctctccaaccaccATGGAGGAACTTGTAGGGCT           |
|       | Nub-CAR7-1-100 aa R        |  |
|       |                            |  |
|       | Nub-CAR/-/4-165 aa F       | acaagtttgtacaaaaaagcaggctctccaaccaccAIGCCCGAIGAACCIGIGAAICI        |
|       | Nub-CAR7-74-165aa R        | tccgccaccaccactttgtacaagaaagctgggtaTCAAAGCCCTCTAGAACCTG            |
|       | Nub CAP8 1 100 ap E        |  |
|       |                            |  |
|       | Nub-CAR8-1-100 aa R        | tccgccaccaccactttgtacaagaaagctgggtaATCCGTTCCTTGAACCTCG             |
|       | Nub-CAR8-74-165 aa F       | acaagtttgtacaaaaaagcaggctctccaaccaccATGCATGTGACTCTCGAAGTGTA        |
|       | Nub-CAR8-74-165 aa R       |  |
|       |                            |  |
|       | CUD-CEPR2-LRR 200 - 621 F  |  |
|       | Cub-CEPR2-LRR 200 - 621 R  | tccgccaccaccaaccactttgtacaagaaagctgggtaTACTGTAATCTTTCCAGTTGTGTC    |
|       | Cub-CEPR2-I RR 400 - 621 F |  |
|       |                            |  |
|       | UUD-UEPKZ-LKK 400 - 621 R  | IccgccaccaccaccaccaciligiacaagaaagcigggaTACTGTATCTTTCCAGTTGTGTC    |
|       | Cub-CEPR2-LRR 600 - 621 F  | acaagtttgtacaaaaaagcaggctctccaaccaccATGTTGGGGTTGAGTATTTGCAGT       |
|       | Cub-CEPR2-I RR 600 - 621 R |  |
|       |                            |  |
|       | Cup-CEPR2-KD 642-650 aa F  |  |
|       | Cub-CEPR2-KD 642-650 aa R  | tccgccaccaccaccactttgtacaagaaagctgggtaACGTATCTTCACAACTCTGTAACGC    |
|       | Cub-CEPR2-KD 642-717 aa F  | acaagtttgtacaaaaaagcaggctctccaaccaccATGTCGAGAAGACCAGACCTC          |
|       |                            |  |
|       | Cup-CEFR2-ND 042-/1/ aa R  |  |
|       | Cub-CEPR2-KD 642-802 aa F  | acaagtttgtacaaaaaagcaggctctccaaccaccATGTCGAGAAGACCAGACCTC          |
|       | Cub-CEPR2-KD 642-802 aa R  | tccgccaccaaccaactattgtacaagaaagctgggtaTGCGATTCCTTTTGCCGCT          |
|       | Cub-CEPR2_KD 6/2 806 ac E  |  |
|       |                            |  |
|       | UUD-UEPKZ-KD 642-896 aa R  | iccyccaccaaccaciiigiacaagaaagciggtaCTCTCCAAACTCGTCTTCCA            |

|   | CLUC-PYL1-1~131aa F   | GGTACCATGGCGAATTCAGAGTCCTC  |
|---|---|---|
|   | cLUC-PYL1-1~131aa R   | GTCGACTTATCTCCGATCATCGTCCAA   |
|   | cLUC-PYL1-1~167aa F   | GGTACCATGGCGAATTCAGAGTCCTC  |
|   | cLUC-PYL1-1~167aa R   | GTCGACTTAGGTCCAGATCCTTTCTTC   |
|   | cLUC-PYL1-125~221aa F   | GGTACCATGCTGTTGGACGATGATCG  |
|   | cLUC-PYL1-125~221aa R   | GTCGACTTACCTAACCTGAGAAGAGTTGTTG   |
|   | cLUC-PYL1-46~221aa F  | GGTACCATGGAGTTCCACACGTACCAAC  |
|   | cLUC-PYL1-46~221aa R  | GTCGACTTACCTAACCTGAGAAGAGTTGTTG   |
|   | cl UC-PYI 2-1~104 aa F  | GGTACCATGAGCTCATCCCCGGCC  |
|   | cl UC-PYI 2-1~104 aa R  | GTCGACTTAATCGACGAACTCAAGCCGCTC  |
|   | cl UC-PYI 2-49~190 aa F   | GGTACCATGGTGGTTTGGCCTCTTATCCG   |
|   | cLUC-PYL2-49~190 aa R   | GTCGACTTATTCATCATCATGCATAGGTGCAGA   |
|   | cLUC-PYL2-84~190 aa F   | GGTACCATGGAAGTGACCGTAATCTCCGG   |
|   | cl UC-PYI 2-84~190 aa R   | GTCGACTTATTCATCATCATGCATAGGTGCAGA   |
|   | cl UC-PYI 4-1~78 aa F   | GGTACCATGCTTGCCGTTCACCGTC   |
|   | cl UC-PYI 4-1~78 aa R   | GTCGACTCATTGTGGGTTATCAAAGCGGC   |
|   | cl UC-PYI 4-1~163 aa F  | GGTACCATGCTTGCCGTTCACCGTC   |
| Deletion analysis   | cl UC-PYI 4-1~163 aa B  | GTCGACTCAGACGTAAGACTCGACAACGA   |
| for I CL assav  | cl UC-PVI 4-52~207 aa E   | GGTACCATGTGTCCCCCCGTTATTCA  |
| Ior Eor doody   | cl IIC-PVI 4-52~207 aa R  | GTCGACTCACAGAGACATCTTCTTCTTGCTC   |
|   | cLUC-PVI 4-18~207aa F   | CETACCATECAGATTCCCATEATCATCCC   |
|   | cl UC-PVI 4-18~207 aa R   | GTCGACTCACAGAGACATCTTCTTCTTGCTC   |
|   | nl UC-CEPR2-I RR 200 - 621 F  | GGTACCATGTTAGCTCGCTCCAACTTGACC  |
|   | nLUC_CEPR2-I RR 200 - 621 R   | GTCGACTACTGTAATCTTTCCAGTTGTGTC  |
|   | nLUC-CEPR2-LRR 400 - 621 F  | GGTACCATGCAAGTTGTTGAAGGATTCTGGTCT   |
|   |   |   |
|   |   |   |
|   |   |   |
|   |   |   |
|   |   |   |
|   | NLUC CEPR2-KD 642-030 da K  |   |
|   | ILUC-CEPRZ-RD 042-717 aa F  |   |
|   | nLUC-CEPRZ-KD 642-717 aa R  |   |
|   | NLUC-CEPRZ-KD 642-802 aa F  |   |
|   | NLUC-CEPRZ-KD 642-802 aa R  |   |
|   | NLUC-CEPRZ-KD 642-896 aa F  |   |
|   | NEUC-CEPRZ-RD 042-090 aa R  |   |
|   | CEPRZ-PETSUA F  | GGATCCCGTTACAGAGTTGTGAAGATACGT  |
|   |   |   |
| Pull down and   | CEPR2-pET30a R  | GTCGACTACTGTAATCTTTCCAGTTGTGTC  |
| Pull down and<br><i>in vitro</i> kinase                                     | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC  |
| Pull down and<br><i>in vitro</i> kinase<br>assays                           | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA   |
| Pull down and<br><i>in vitro</i> kinase<br>assays                           | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 F  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>CAATTCTCACACACATCTTCTTCTTCCTC   |
| Pull down and<br><i>in vitro</i> kinase<br>assays                           | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 F<br>PYL4-pGEX 4t-1 R  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC   |
| Pull down and<br><i>in vitr</i> o kinase<br>assays                          | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 F<br>PYL4-pGEX 4t-1 R<br><i>cepr2</i> LP   | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG  |
| Pull down and<br><i>in vitr</i> o kinase<br>assays                          | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 F<br>PYL4-pGEX 4t-1 R<br><i>cepr2</i> LP<br><i>cepr2</i> RP  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC   |
| Pull down and<br><i>in vitro</i> kinase<br>assays                           | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 F<br>PYL4-pGEX 4t-1 R<br>cepr2 LP<br>cepr2 RP<br>pxy LP  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCCGAGTTTTGAAGGAGC<br>AATCTCGATCGTGCAACACC   |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 F<br>PYL4-pGEX 4t-1 R<br>cepr2 LP<br>cepr2 RP<br>pxy LP<br>pxy RP<br>v= 0 D  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCCGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG   |
| Pull down and<br><i>in vitr</i> o kinase<br>assays<br>T-DNA                 | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 F<br>PYL4-pGEX 4t-1 R<br>cepr2 LP<br>cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 LP<br>px/2 LP  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATCCCCTTCCACATTAATCC  |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 F<br>PYL4-pGEX 4t-1 R<br>cepr2 LP<br>cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 LP   | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCCGAGTTTTGAAGGAGC<br>AATCTCGATCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCGAACACCTTGGAGATTAATGG   |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>cepr2 LP<br>cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 LP<br>px/2 RP<br>LB<br>EB  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTTCGCCTGCT  |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a         R           PYL2-pGEX 4t-1         F           PYL2-pGEX 4t-1         R           PYL4-pGEX 4t-1         F           PYL4-pGEX 4t-1         R           cepr2         LP           cepr2         RP           pxy         LP           px/2         LP           px/2         RP           LB         GRT-ABI1   | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTTCGCCTGCT<br>TCCATTATCCGTTGACCATA  |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a         R           PYL2-pGEX 4t-1         F           PYL2-pGEX 4t-1         R           PYL4-pGEX 4t-1         F           PYL4-pGEX 4t-1         R           cepr2         LP           cepr2         RP           pxy         LP           px/2         RP           LB         gRT-ABI1           qRT-ABI1         R  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTACCGTTGACA  |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a         R           PYL2-pGEX 4t-1         F           PYL2-pGEX 4t-1         R           PYL4-pGEX 4t-1         F           PYL4-pGEX 4t-1         R           cepr2         LP           cepr2         RP           pxy         LP           px/2         LP           qRT-ABI1         F           qRT-ABI2         F   | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTACTCTCTCTCACA<br>AGATACCTTAACCGTCAGT  |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a         R           PYL2-pGEX 4t-1         F           PYL2-pGEX 4t-1         R           PYL4-pGEX 4t-1         F           PYL4-pGEX 4t-1         R           cepr2         LP           cepr2         RP           pxy         LP           px/2         LP           qRT-ABI1         F           qRT-ABI2         F           qRT-ABI2         R  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTATACCGTCACA<br>AGATACCTTAAACCGTCAGT<br>CGTTCTTCTATGCCATAGTA   |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>Cepr2 LP<br>Cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 LP<br>px/2 RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 R<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-PYL1 F<br>-PT PVL4 P  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTACTCTCTTCACA<br>AGATACCTTAACCGTCAGT<br>CGTCTTCTTATGCCATAGTAA<br>TAGATTTGAGAAAGAAGAAGAAGAA  |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>Cepr2 LP<br>Cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 LP<br>px/2 RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 R<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-PYL1 F<br>qRT-PYL4 F  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTACTCTCTTCACA<br>AGATACCTTAACCGTCAGT<br>CGTCTTCTTATGCCATAGTAA<br>TAGATTTGAGAAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTT  |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>cepr2 LP<br>cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 LP<br>px/2 RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 R<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-PYL1 F<br>qRT-PYL4 F<br>-PT PVL4 F  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTACTCTCTCACA<br>AGATACCTTAACCGTCAGT<br>CGTTCTTCTTATGCCATAGTAA<br>TAGATTTGAGAAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTC  |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>cepr2 LP<br>cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 LP<br>px/2 RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 R<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-PYL1 F<br>qRT-PYL1 F<br>qRT-PYL4 F<br>qRT-PYL4 R<br>  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTACTCTCTTCACA<br>AGATACCTTAACCGTCAGT<br>CGTTCTTCTTATGCCATAGTAA<br>TAGATTTGAGAAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGTT<br>TCTAACTACCGATCCGTAAC  |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br><i>cepr2</i> LP<br><i>cepr2</i> RP<br><i>pxy</i> LP<br><i>pxy</i> RP<br><i>px/2</i> LP<br><i>px/2</i> RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 R<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-ABI2 R<br>qRT-PYL1 F<br>qRT-PYL4 F<br>qRT-PYL4 R<br>qRT-SnRK2.2 F   | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTACCGTTGACCATA<br>CATCTTCTTTACCGTCACA<br>AGATACCTTAACCGTCAGT<br>CGTTCTTCTTATGCCATAGTA<br>TAGATTTGAGAAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTTTGTCTCC<br>TCAAGTCTCTTCTTCTCATCC<br>GACACCTTCGTTCTCATCC<br>CCCCCAACCAACACTTC   |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA                  | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br><i>cepr2</i> LP<br><i>cepr2</i> RP<br><i>pxy</i> LP<br><i>pxy</i> RP<br><i>px/2</i> LP<br><i>px/2</i> RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 F<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-ABI2 R<br>qRT-PYL1 F<br>qRT-PYL1 F<br>qRT-PYL4 R<br>qRT-PYL4 R<br>qRT-SnRK2.2 R   | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTATCGCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTTACTCTCTTCACA<br>AGATACCTTAACCGTCAGT<br>CGTTCTTCTAGCCATAGTA<br>TAGATTTGAGAAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTTTGTCTCTC<br>TCAACTACCGATCCGTAAC<br>GACATCTTCTTTTGCCTGCT<br>TCTAACTACCGATCGTAAC<br>GACATCTTCTTTGTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTTGTCTCTC<br>CCAAGTCTTCTTCTGTCTC<br>CCAACCAACATTACATAT   |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA<br>qRT           | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>cepr2 LP<br>cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 LP<br>px/2 RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 R<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-ABI2 R<br>qRT-PYL1 F<br>qRT-PYL1 F<br>qRT-PYL4 F<br>qRT-PYL4 R<br>qRT-SnRK2.2 R<br>qRT-SnRK2.3 F<br>aPT SnRK2.2 D   | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTACTCTCTTCACA<br>AGATACCTTAACCGTCAGT<br>CGTTCTTCTTATGCCATAGTAA<br>TAGATTTGAGAAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGATCGTAAC<br>GACATCTTCTTCTTCTCATTCC<br>GTCCAACCAACATTACGTCG<br>GCTCCAACCAACATTACTG<br>GCTCCAACCAACATTACTC<br>GCTCCACCAACATTACCGTCAGT<br>CCATCTTCTTCTTGTCTCC<br>CCAACCAACATTACATAT<br>AGTCTTCTTCTTCTTCATTCC<br>GCTCCAACCAACATTACATAT   |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA<br>qRT<br>(60°C) | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br><i>cepr2</i> LP<br><i>cepr2</i> RP<br><i>pxy</i> LP<br><i>pxy</i> RP<br><i>px/2</i> LP<br><i>px/2</i> RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 R<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-ABI2 R<br>qRT-PYL1 F<br>qRT-PYL1 F<br>qRT-PYL4 R<br>qRT-PYL4 R<br>qRT-SnRK2.2 F<br>qRT-SnRK2.3 F<br>qRT-SnRK2.3 R<br><i>cepr2</i> 2 C<br><i>cepr2</i> | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTTACTCTCTTCACA<br>AGATACCTTAACCGTCAGT<br>CGTTCTTCTTATGCCATAGTAA<br>TAGATTTGAGAAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTTTGTCTCC<br>TCAAGTCTCTTTCTTCTCC<br>GCTCCATCCGATCCGTAAC<br>GACATCTTCTTTTGTCTCTC<br>CCATCTCTTTTGTCTCTC<br>CCAAGCCATCGTCATC<br>GCTCCAACCAACATTACATAT<br>AGTCTTCTGTTCTTCATTCAC<br>GATAGTCTCTGTGTCTTCT<br>CCAAGCCAACATTACATAT  |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA<br>qRT<br>(60°C) | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>Cepr2 LP<br>Cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 LP<br>px/2 RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 F<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-ABI2 R<br>qRT-PYL1 F<br>qRT-PYL4 R<br>qRT-PYL4 R<br>qRT-SnRK2.2 F<br>qRT-SnRK2.3 R<br>qRT-SnRK2.6 F<br>cepr2 R<br>P<br>Cepr2 R<br>P<br>Cepr2 R<br>Cepr2 R  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTACCGTTGACCATA<br>CATCTTCTTTACCGTCACA<br>AGATACCTTAACCGTCAGT<br>CGTTCTTCTTATGCCATAGTAA<br>TAGATTTGAGAAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTTCTCTCTCC<br>TCAAGTCTCTTCTGTCTCC<br>TCAAGTCTCTGTTCTTCATTCC<br>GCTCCAACCAACATTACATAT<br>AGTCTTCTTGTGTTGTTGT<br>GCTCCAACCAACATTACATAT<br>AGTCTTCTTGGCCTTCT<br>CTAAGTCTCTGGCTCTTCT<br>CTAAGTCTCTGGCTCTTCT<br>CTAAGTCTTCGGCTCTTCT<br>CTAAGTCTCTGTCTTCATTCAC<br>GATAGTCTCTGTGTCTTCATTCAC<br>GATAGTCTCTGGCTCTTCT<br>CTAATGAACGATAACACGATGA   |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA<br>qRT<br>(60°C) | CEPR2-pET30a       R         PYL2-pGEX 4t-1       F         PYL2-pGEX 4t-1       R         PYL4-pGEX 4t-1       F         PYL4-pGEX 4t-1       R         cepr2       LP         cepr2       RP         pxy       LP         pxy       LP         px/2       LP         px/2       LP         px/2       RP         px/2       RP         px/2       RP         px/2       RP         px/2       RP         px/2       RP         pxy       RP         pxy       RP         pxy       RP         px/2       RP         px/2       RP         px/2       RP         px/2       RP         gRT-ABI1       R         qRT-ABI2       R         qRT-PYL1       R         qRT-PYL1       R         qRT-SnRK2.2       R         qRT-SnRK2.3       R         qRT-SnRK2.6       R         qRT-SnRK2.6       R         qRT-SnRK2.6       R         qRT-SnRK2.6       R   | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AACTCGGAGTTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTTACTCTCTTCACA<br>AGATACCTTAACCGTCAGT<br>CGTTCTTCTTATGCCATAGTAA<br>TAGATTTGAGAAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTTTGTCTCTC<br>TCAAGTCTTCTTTGTCTCTC<br>TCAAGTCTTCTTTGTCTTC<br>GCTCCAACCAACATAC<br>GACATCTTCTTTGTCTTC<br>GCTCCAACCAACATACCATA<br>GACATCTTCTTTGTCTTC<br>GCTCAACCAACATACCATA<br>CATCTTCTTTGTCTTCTC<br>CTAAGTCTTCTGTTCTTCATTCC<br>GCTCCAACCAACATTACATAT<br>AGTCTTCTTGGCTCTTC<br>CTAATGAACGATAACACGATGA<br>CTCTAAGTCTTCTGGCTCTTC<br>CTAATGAACGATAACACGATGA  |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA<br>qRT<br>(60°C) | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>Cepr2 LP<br>Cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 LP<br>px/2 RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 F<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-ABI2 R<br>qRT-PYL1 F<br>qRT-PYL1 F<br>qRT-PYL4 R<br>qRT-PYL4 R<br>qRT-SnRK2.2 F<br>qRT-SnRK2.3 R<br>qRT-SnRK2.6 F<br>qRT-SnRK2.6 R<br>qRT-ABI4 P  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTTACTCTCTTCACA<br>AGATACCTTAAACCGTCAGT<br>CGTTCTTCTTATGCCATAGTA<br>CGTTCTTCTTATGCCATAGTA<br>CGTTCTTCTTATGCCATAGTA<br>TGGAACGAACCGTCAGT<br>CGTTCTTCTTATGCCATAGTA<br>TGGAATCACGTCGTAGTA<br>TGGAATCACGATCGTCAGT<br>CGTTCTTCTTATGCCATAGTAA<br>TAGATTTGAGAAAGAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTTTGTCTTCATTC<br>GCTCCAACCAACATTACATAT<br>AGTCTTCTTGTCTTCATTCAC<br>GATAGTCTTCTTGGCTCTTCT<br>CTAATGAACGATAACACGATGA<br>TCTAAGTACGATAACACGATGA<br>TCTAAGTCTTCTTCTTCATTCAC<br>GATAGTCTTCTTGGCTCTTC<br>CTAATGAACGATAACACGATGA<br>TCTCAAGTCTTCTTCTCCTCC<br>CAACACCAACAGTATCAGAAT<br>AGTATTATTATTACACCGACTCC   |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA<br>qRT<br>(60°C) | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>Cepr2 LP<br>Cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 LP<br>px/2 RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 F<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-ABI2 R<br>qRT-PYL1 F<br>qRT-PYL1 F<br>qRT-PYL4 R<br>qRT-PYL4 R<br>qRT-SnRK2.2 F<br>qRT-SnRK2.3 R<br>qRT-SnRK2.3 R<br>qRT-SnRK2.6 R<br>qRT-ABI4 R<br>cept f<br>qRT-ABI4 R<br>cept f<br>qRT-ABI4 R<br>cept f<br>cept f<br>ce  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATAATGG<br>TCAAACAGGATTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTTACTCTCTCACA<br>AGATACCTTAAACCGTCAGT<br>CGTTCTTCTTATGCCATAGTA<br>CATCTTCTTTTAGCCATAGTA<br>TAGATTTGAGAAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTTGTCTTCATCC<br>GCTCCAACCAACATTACTG<br>GACATCTTCTTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTGTTCTTCATTC<br>GCTCCAACCAACATTACATAT<br>AGTCTTCTTGTTCTTCATTCAC<br>GATAGTCTTCTTGTCTTCATTC<br>CTAATGAACGATAACACGATGA<br>TCTTAAGTCTTCGTTCTTCATTC<br>CTAATGAACGATAACACGATGA<br>TCTCTAAGTCTTCTTCTTCATTCAC<br>GATAGTCTTCTTGTCTTCTTCT<br>CTAATGAACGATAACACGATGA<br>TCTCTAAGTCTTCCCCATATC<br>CAACACCAACAGTATCAGAAT<br>ACTATTATTATTACACCACTTCC<br>CTAACTACCACCACCATCCC<br>CAACACCAACAGTATCAGAAT  |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA<br>qRT<br>(60°C) | CEPR2-pET30a       R         PYL2-pGEX 4t-1       F         PYL2-pGEX 4t-1       R         PYL4-pGEX 4t-1       R         cepr2       LP         cepr2       RP         pxy       LP         pxy       LP         pxy2       LP         px/2       LP         px/2       RP         pxy12       LP         px/2       RP         px12       RP         px12       RP         px12       RP         px12       RP         px12       RP         px12       RP         qRT-ABI1       R         qRT-ABI2       R         qRT-PYL1       R         qRT-PYL4       R         qRT-SnRK2.2       R         qRT-SnRK2.3       R         qRT-SnRK2.3       R         qRT-SnRK2.6       F         qRT-ABI4       F         qRT   | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTGAACGCAACG<br>AACTCGGAGTTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTAACCGTCAATA<br>CATCTTCTTTAACCGTCAGT<br>CGTTCTCTTAACCGTCAGT<br>CGTTCTCTTAACCGTCAGT<br>CGTTCTCTTTATGCCATAGTAA<br>AGATACCTTAACCGTCAGT<br>CGTTCTCTTCTTGTGTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTCTTCATTC<br>GCTCCCAACCAACATTACATAT<br>AGTCTTCTTGTTCTTCATTC<br>GCTCCCAACCAACATTACATAT<br>AGTCTTCTTGGTCTTCT<br>CTAAGTACGATACCGATGA<br>TCTAACTACCGATACCATAT<br>AGTCTTCTTGGTCTTCT<br>CTAAGTACCATAACAGATAAC<br>GACATCTTCTTGGTCTTCT<br>CTAAGTACCACAACATTACATAT<br>AGTCTTCTGGTCTTCTCTC<br>CTAAGTACCGATACCGATGA<br>TCTTAAGTACCGATACCGATGA<br>TCTTAAGTACCGATACCGATGA<br>CATCTTCTTGGTCTTCTC<br>CTAAGTACCAACATTACCATAT<br>AGTCTTCTGGTCTTCTC<br>CTAAGTACCGATACCGATGA<br>ACTATTATTATTACACCCACTTCC<br>GTAGTAGTAGTAGTAGTAATGGACAGA   |
| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA<br>qRT<br>(60°C) | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>Cepr2 LP<br>Cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 LP<br>px/2 RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 F<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-ABI2 R<br>qRT-PYL1 F<br>qRT-PYL1 F<br>qRT-PYL4 R<br>qRT-PYL4 R<br>qRT-SnRK2.2 F<br>qRT-SnRK2.3 F<br>qRT-SnRK2.3 R<br>qRT-SnRK2.6 F<br>qRT-SnRK2.6 R<br>qRT-ABI4 F<br>qRT-ABI5 F<br>qRT-ABI5 R<br>cept path 2 c  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTGAACGCAACG<br>AACTCGGAGTTCGTGCAACATC<br>GTTTCGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTCGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTAACCGTCAGT<br>CGTTCTCTTAACCGTCAGT<br>CGTTCTTCTTAGCCATAGTAA<br>AGATACCTTAAACCGTCAGT<br>CGTTCTTCTTTAGCCATAGTAA<br>TAGATTTGAGAAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTTGTCATTC<br>GCTCCCAACCAACATTACATAT<br>AGTCTTCTTGGTCTTCATTC<br>GCTCCCAACCAACATTACATAT<br>AGTCTTCTTGGTCTTCTTCATTC<br>CTAACTACCGATACCGATGA<br>TCTAACTACCGATACCATAT<br>AGTCTTCTGTTCTTCATTCACC<br>GATAGTCTCTTGGTCTTCT<br>CTAACTACCGATACCATAGTAA<br>AGTAGTCTCTGGTCTTCT<br>CTAACTACCGATACCAACATAC<br>GATAGTCTCTTGGTCTTCT<br>CTAACTACCGATACCAACATAC<br>GATAGTCTCTTGGTCTTCT<br>CTAACTACCGATACCAACATTACATAT<br>AGTCTTCTGGTCTTCTC<br>CTAACTGACGATAACACGATGA<br>TCTCTAAGTCTTCCTCCATATC<br>CAACACCAACATTACAAAT<br>ACTATTATTATTACACCCACTTCC<br>GTAGTAGTAGTAGTAGTAATGGACAGA<br>CGGGTTTGGATTAGGATTAGGATAA  |
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| Pull down and<br><i>in vitro</i> kinase<br>assays<br>T-DNA<br>qRT<br>(60°C) | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>cepr2 LP<br>cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 F<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-ABI2 R<br>qRT-PYL1 F<br>qRT-PYL1 F<br>qRT-PYL4 R<br>qRT-PYL4 R<br>qRT-SnRK2.2 F<br>qRT-SnRK2.3 F<br>qRT-SnRK2.3 R<br>qRT-SnRK2.6 R<br>qRT-ABI4 F<br>qRT-ABI5 F<br>qRT-ABI5 R<br>qRT-RAB18 R<br>qRT-RAB18 R<br>qRT-RAB18 R  | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTGTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCCGGAGTTTTGAAGGAGC<br>AACTCCGGAGTCAAAACAATCG<br>TCGAACGATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCCAAACAGGATTTTCGCCTGCT<br>TCCATATCCGTTGACCATA<br>CATCTTCTTTTACTCTCTCACA<br>AGATACCTTAAACCGTCAGT<br>CGTTCTTATGCCATAGTAA<br>TAGATTGGCTTGGTCACATA<br>CATCTTCTTTATGCCATAGTAA<br>TAGATTGGCATCAGTA<br>CATCTCTCTTATGCCATAGTAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGAACGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTTTGCTCTC<br>CCAAGCCAACCAACATTACATAT<br>AGTCTTCTGTTCTTCATCA<br>GATCGTCTCTGTCTTCACA<br>AGATGCTTCTGTTCTTCATC<br>CCTCCAACCAACATTACATAT<br>AGTCTTCTGTTCTTCATCAC<br>GATAGTCTCTGGCTCTTC<br>CTAAGTCTCTGGCTCTTC<br>CTAAGTCTTGGCTCTTCT<br>CTAAGTCTTCTGTCTCATCC<br>GATAGTCTTTGGCTCTCT<br>CTAAGTCTTGGCTCTTCT<br>CTAAGTCTTCGGCTCTTC<br>CTAAGTCTTCGTTCTCCCC<br>GTAGTAGTAACACGATAACAGAAGAAT<br>ACTATTATTATTACACCCACTTCC<br>GTAGTAGTAGTAGTAGTAATGGACAGA<br>CGGGTTTGGATTAGGTTTAG<br>GCAGCAGTATGAGAGTAACAGAGAA<br>CGGGTTTGGATTAGGTTAG<br>GCAGCAGTATGACGAGTA<br>AGTTCCCAAGCCATAGCAGAT<br>ACTATTATTATACACCCACTTCC<br>GTAGTAGTAGTAGTAGTAATGGACAGA<br>CGGGTTTGGATTAGGTTTAG<br>GCAGCAGTATGACGAGTA<br>AGTTCCCAAGCCATCAGT  |
| Pull down and<br>in vitro kinase<br>assays<br>T-DNA<br>qRT<br>(60°C)        | CEPR2-pET30a R<br>PYL2-pGEX 4t-1 F<br>PYL2-pGEX 4t-1 R<br>PYL4-pGEX 4t-1 R<br>cepr2 LP<br>cepr2 RP<br>pxy LP<br>pxy RP<br>px/2 RP<br>LB<br>qRT-ABI1 F<br>qRT-ABI1 F<br>qRT-ABI2 F<br>qRT-ABI2 F<br>qRT-ABI2 R<br>qRT-PYL1 R<br>qRT-PYL1 R<br>qRT-PYL1 R<br>qRT-PYL4 R<br>qRT-SnRK2.2 F<br>qRT-SnRK2.3 F<br>qRT-SnRK2.3 R<br>qRT-SnRK2.6 R<br>qRT-ABI4 F<br>qRT-ABI5 F<br>qRT-ABI5 R<br>qRT-RAB18 R<br>qRT-RAB18 R<br>qRT-RAB18 R<br>qRT-RAB18 R<br>qRT-RAB18 R<br>qRT-RAB18 R   | GTCGACTACTGTAATCTTTCCAGTTGTGTC<br>GGATCCATGAGCTCATCCCCGGCC<br>GAATTCTTATTCATCATCATGCATAGGTGCAGA<br>GGATCCATGCTTGCCGTTCACCGTC<br>GAATTCTCACAGAGACATCTTCTTCTTGCTC<br>TCACAACTCTGTAACGCAACG<br>AACTCGGAGTTTTGAAGGAGC<br>AATCTCGATTCGTGCAACATCG<br>TTCGGAGGAGTCAAAACAATCG<br>TCGAACGAATCAGTTTATCGG<br>AATGGCCTTGGAGATTAATGG<br>TCAAACAGGATTTGCCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTATCGCTGCT<br>TCCATTATCCGTTGACCATA<br>CATCTTCTTTATGCCATAGTA<br>CAGTACCTTAAACCGTCAGT<br>CGTTCTCTTATGCCATAGTAA<br>TAGATTTGAGAAAGAAGAAGAAGAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTTTGCCATAGTAA<br>AGAGTTGTTGTTGTTGTTGT<br>TCTAACTACCGATCCGTAAC<br>GACATCTTCTTGTTCTTCATTC<br>GCTCCCACCCAACATTACATAT<br>AGTCTTCTGTCTTCATTCAC<br>GATAGTCTTGGCTCTTCT<br>CTAAGTAGCGATAACACGATGA<br>TCTAATGACGATAACACGATGA<br>CTCTAATGACGATAACACGATGA<br>CTCTAAGTCTTTGGCTCTTC<br>CTAAGTCTTCTTGGCTCTTC<br>CTAATGAACGATAACACGATGA<br>TCTTCTTGGCTCTTCT<br>CTAATGAACGATAACACGATGA<br>CTCTCAAGTCTTCGGCTCTTCT<br>CTAATGAACGATAACACGATGA<br>CTCTCAAGTCTTCGTCCTTCC<br>CTAATGAACGATAACACGATGA<br>CTCTCAAGTCTTCGGCCTTCT<br>CTAATGAACGATAACACGATGA<br>CTCTCAAGTCTTCGGCCTTCT<br>CTAATGAACGATAACACGATGA<br>CTCTCAAGTCTTCGTCCTCC<br>CTAATGAACGATAACACGATGA<br>CCGGTTTGGATTAGGACAGAA<br>ACTATTATTATACACCCACTTCC<br>GTAGTAGTAGTAGTAGTAATGGACAGA<br>CGGGTTTGGATTAGGACTAGT<br>CAGGTATCAGGCAAGGATAT<br>CAGGTATCAGGCAAGGATAT<br>CAGGTATCAGGCAAGGATAT<br>CAGGTATCAGGCAAGGATAT  |

|      | RT-CEPR2 F | ACAATTCTTGCTCGCCTTGCAGA     |
|------|------------|-----------------------------|
|      | RT-CEPR2 R | GGATTTCACCTGTTAGCCTATTCCCT  |
|      | RT-PXL2 F  | CATGATCGGAATGGGAGCAACC      |
| рт   | RT-PXL2 R  | CGGCGACCATTGAAACGGTT        |
| RI - | RT-PXY F   | CTCTCAACCAATTTCTTCCACAGGA   |
|      | RT-PXY R   | CAATATCCAAACAATAGCTCCGGCTG  |
|      | RT-EF-1α F | gtatggttgttacctttgctcccacag |
|      | RT-EF-1α R | catcatttggcacccttcttcactgc  |