

Additional file 14. Serine, threonine and tyrosine phosphorylation specificity motifs of RLK/Pelles of *Platanus × acerifolia* (*Pac*) and *Arabidopsis*. The motifs are compared with phosphorylation specificity motifs of protein kinase previously inferred [42]. Consensus was determined using MEME (a motif-based sequence analysis tool).

| Phosphorylation specificity | Subdom. VI B | Subdom. VIII P+1 loop | |
|-----------------------------|---|---|-----------|
| Ser/Thr | DLKXXN | $\begin{matrix} S & F \\ \vdots & \vdots \\ G T X X Y X A P E \end{matrix}$ | |
| Ser/Thr/Tyr | DLKSDN | GTYRWMAPE | |
| Tyr | $\begin{matrix} A & R \\ \vdots & \vdots \\ D L R A A N \end{matrix}$ | $\begin{matrix} V R & M \\ \vdots & \vdots \\ X P I K W T A P E \end{matrix}$ | |
| <i>Pac</i> | | | CRLKIL |
| <i>Arabidopsis</i> | | | |
| <i>Pac</i> | | | WAK-like |
| <i>Arabidopsis</i> | | | |
| <i>Pac</i> | | | BRI1-like |
| <i>Arabidopsis</i> | | | |
| <i>Pac</i> | | NA | LRR XII |
| <i>Arabidopsis</i> | | | |