Supplemental Table 1. Potential Extracellular Partners for Pollen Receptor Kinases Obtained by Yeast Two-Hybrid Screening of a Pollen cDNA Library

Groups of Candidate Interactors		Interaction Specificity in Y2H		
		ECD1	ECD2	ECD3
I. Cysteine-rich proteins				
1.~16 kDa	$CX_{12}CX_2CX_{20}CX_{34}CX_{11}CX_{13}CX_{26}CX_{15}$ **(LAT52)**	No	Yes*(4)	No
2.~ 8 kDa	$CX_{27}CCX_2\ CX_3\ CX_9\ CX_3\ CX_3\ CX_{12}$	Yes	Yes*(4)	Yes
3.~ 6 kDa	$CX_9CX_3\ CX_3\ CX_{10}CX_3\ CX_3\ CX_{17}$	No	Yes*(4)	No
4.~ 6 kDa	$CX_3\ CX_3\ CX_9\ CX_3\ CX_3\ CX_{14}$	Yes*(2)	Yes*(1)	No
5.~13 kDa	$CX_{12}CX_2CX_{20}CX_{34}CX_{11}CX_{13}CX_6\ CX_{12}$	Yes*(3)	Yes*(1)	No
6.~16 kDa	$CX_2CX_{20}CX_{34}CX_{11}CX_{13}CX_{26}CX_{22}$	No	Yes*(2)	No
7.~14 kDa	$CX_2CX_{11}CXCX_{10}CX_{15}CX_2\ CX_{34}CX_3\ CX_1$	No	Yes*(1)	No
8.~13 kDa	$CX_{15}CX_9CCX_1\ \ CX_7\ CX_{12}CX_{21}CX_8\ CX_{12}$	No	Yes*(2)	No
II. Potential cell wall remodeling proteins				
9. Pectin methylesterase-like		No	Yes*(3)	Yes
10. Pectin esterase-like		Yes	Yes*(2)	No
11. β-1:3 endoglucanase-like		No	Yes*(2)	No
12. LAT59, pectate lyase-like		No	Yes*(5)	No
13. Ascorbate oxidase-like		No	Yes*(4)	No
III. LRR-protein				
14. ~37 kDa, 10 leucine-rich repeats		No	Yes*(4)	No
IV. EF-hand (calcium-binding) motif protein				
15. ~36 kDa, 2 EF-hand motifs		No	Yes*(1)	No
V. Unknown proteins				
16. ~18 kDa, similar to PGPS/D7 (Guyon et al., 2000)		Yes*(3)	Yes	No
17. ~10 kDa		No	Yes*(6)	Yes*(1)
18. ~20 kDa		Yes*(1)	Yes*(2)	No
19. ~12 kDa		No	Yes*(2)	No
20. ~32 kDa		No	No	Yes*(1)

All the candidates listed harbor a putative signal peptide at the N terminus, as predicted by PSORT.
In group I, the patterns of cysteine residues are shown, starting with the first cysteine residue.
"Yes " indicates that the candidate can interact with the bait after retransformation into yeast.
"No" indicates that the candidate cannot interact with the bait after retransformation into yeast.
* Indicates with which bait the candidate was obtained.
The numbers in parentheses indicate individual cDNA colonies.

Reference

Guyon, V.N., Astwood, J.D., Garner, E.C., Dunker, A.K., and Taylor, L.P. (2000). Isolation and characterization of cDNAs expressed in the early stages of flavonol-induced pollen germination in petunia. Plant Physiol. **123,** 699-710.