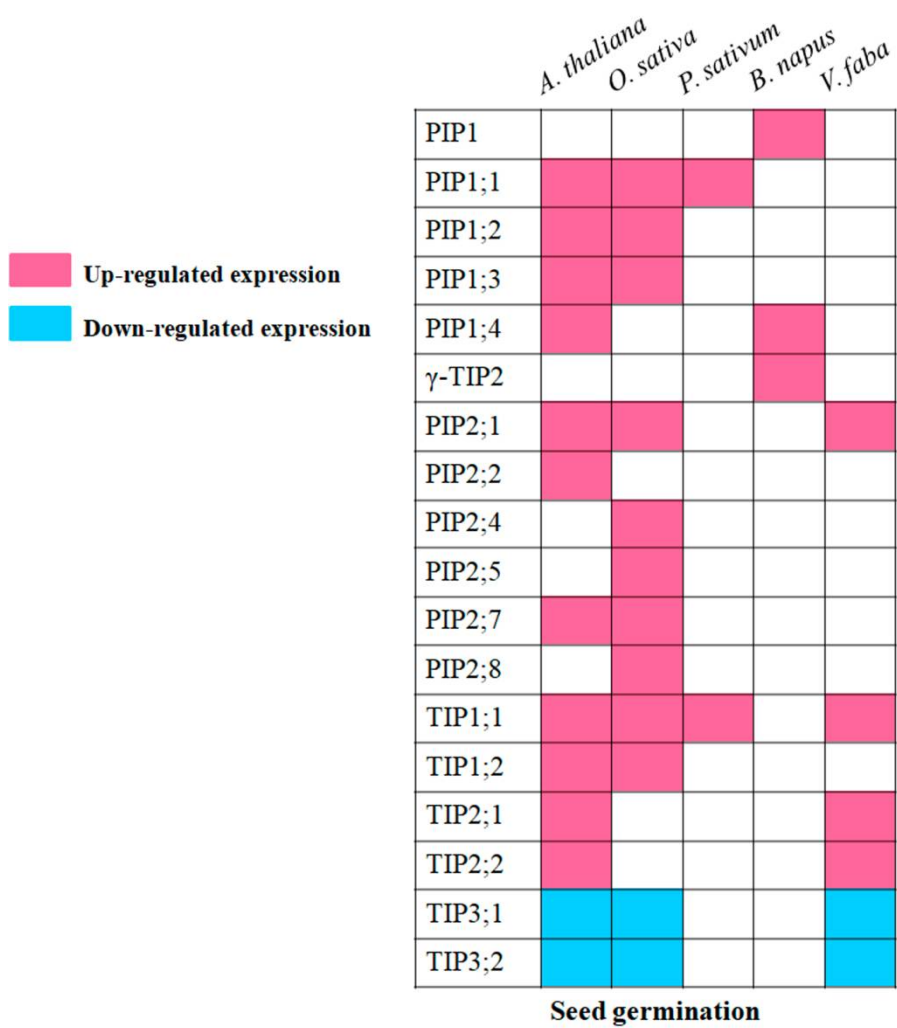



Figure S1 Expression of AQPs during plant growth and development



 Up-regulated expression

	<i>A. thaliana</i>	<i>O. sativa</i>	<i>P. sativum</i>	<i>L. esculentum</i>	<i>S. chacoense</i>	<i>P. taeda</i>	<i>P. vulgaris</i>
PIP1;1							
PIP1;2							
PIP1;3							
PIP1;4							
PIP1;5							
PIP2;1							
PIP2;2							
PIP2;3							
PIP2;5							
PIP2;6							
PIP2;7							
PIP2;8							
TIP1;1							
TIP2;2							
TIP3;1							
TIP4;2							
NIP1;1							
SIP1;1							
SIP1;2							
SIP2;1							

Seed development

 Up-regulated expression





















	<i>A. thaliana</i>	<i>Z. mays</i>	<i>H. vulgare</i>	<i>V. vinifera</i>	<i>V. faba</i>
PIP1;1	■	■		■	
PIP1;2	■	■	■	■	
PIP1;3	■			■	
PIP1;4				■	
PIP1;5		■		■	
PIP2;1	■	■		■	
PIP2;2			■	■	
PIP2;3	■			■	
PIP2;4		■		■	
PIP2;5		■	■		
PIP2;6	■	■			
TIP1;1		■	■		
TIP2;1					■
TIP2;2					■
TIP2;3			■		

Roots


	<i>A. thaliana</i>	<i>R. communis</i>	<i>P. sativum</i>	<i>S. viridis</i>	<i>O. sativa</i>
PIP1;1		■	■		■
PIP1;2					■
PIP2;1		■	■	■	■
PIP2;6					■
TIP1;1	■	■	■		■
TIP2;2					■
SIP1;1					■


















Hypocotyls Shoots Internodes

 Up-regulated expression





	<i>A. thaliana</i>	<i>Z. mays</i>	<i>H. vulgare</i>
PIP1;1			
PIP1;2			
PIP1;3			
PIP1;4			
PIP1;5			
PIP1;6			
PIP2;1			
PIP2;2			
PIP2;3			
PIP2;4			
PIP2;5			
PIP2;6			
TIP1;1			
TIP2;3			
NIP1;1			

Leaves


 Up-regulated expression

	<i>P. persica</i>	<i>C. sinensis</i>	<i>D. caryophyllus</i>
PIP1;1			
PIP1;3			
PIP2			
PIP2;1			
PIP2;2			
PIP2;4			
PIP2;5			
δ TIP1			
TIP1;4			
TIP2;2			
TIP4;1			
NIP6;1			
SIP1;1			
SIP2;1			
XIP			

Dormant buds
Active buds

	<i>O. sativa</i>	<i>N. tabacum</i>
PIP1		
PIP1;1		
PIP2		
PIP4;1		

Anthers

 Up-regulated expression

	<i>V. vinifera</i>	<i>C. lanatus</i>	<i>L. esculentum</i>	<i>Fragaria</i>	<i>M. domestica</i>	<i>S. lycopersicum</i>	Banana
PIP1a					■		
PIP1b					■		
PIP1;1			■	■		■	
PIP1;2	■	■				■	
PIP1;3	■	■			■		
PIP1;4			■				
PIP1;5			■				
PIP1;6							■
PIP1;7						■	
PIP2;1	■			■			
PIP2;3	■						
PIP2;5	■						■
PIP2;6							
PIP2;7							■
PIP2;10							■
TIP1;2	■						
TIP1;3	■						
TIP2;1	■						
TIP3;1						■	
TIP3;2						■	
TIP4;1							■
NIP2;1						■	
NIP4;1						■	
NIP5;1						■	
NIP6;1						■	
SIP1;1							■
SIP2;1						■	
XIP1;1						■	

Fruits