

Supplemental table I. Function of the root ion transporter genes investigated

Gene family/Gene name	Function	References
NRT2		
NRT2.1 (At1g08090)	High affinity nitrate transporter involved in root uptake	Filleur et al. (2001) ; Orsel et al. (2006)
NRT2.4 (At5g60770)	Putative nitrate transporter expressed in roots	Orsel et al. (2002)
PTR		
NRT1.1 (At1g12110)	Dual affinity nitrate transporter involved in root uptake	Tsay et al. (1993); Liu et al.(1999)
NRT1.5 (At1g32450)	Putative nitrate transporter	
At3g16180	Oligopeptide transporter	
At3g21670	Oligopeptide transporter	
At5g62680	Oligopeptide transporter	
At1g59740	Oligopeptide transporter	
AMT		
AMT1.3 (At3g24300)	High affinity ammonium transporter involved in root uptake	Gazzarrini et al. (1999) ; Loque et al. (2006)
PHT		
PHT 3.1 (At5g14040)	Putative phosphate transporter	
PHT 1.4 AtPT2 (At2g38940)	High affinity phosphate transporter involved in root uptake	Shin et al. (2004) ; Misson et al. (2004)
SULTR		
SULTR3.5 (At5g19600)	Low affinity sulfate transporter involved in root to shoot translocation	Kataoka et al. (2004)
SULTR1.1 (At4g08620)	High affinity sulfate transporter likely involved in root uptake	Takahashi et al. (2000)
ZIP		
ZIP11 (At1g55910)	Metal transporter	Guerinot (2000); Mäser et al.(2001)
HAK/KUP		
KUP2 (At2g40540)	High affinity potassium transporter	Kim et al. (1998)
HAK5 (At4g13420)	High affinity potassium transporter likely involved in root uptake	Gierth et al. (2005)
CNGC		
CNGC11 (At2g46440)	Cation channel involved in pathogen resistance responses	Yoshioka et al. (2006)
NRAMP		
NRAMP4 (At5g67330)	Iron transporter involved in mobilisation of vacuolar iron	Lanquar et al. (2005)
YSL		
YSL4 (At5g41000)	Putative metal transporter	DiDonato et al. (2004)
Shaker-like		
AKT2 (At4g22200)	Potassium channel involved in phloem transport	Deeken et al. (2000)

Supplemental references:

DiDonato et al. (2004) *Plant J* **39**: 403-414; Gierth et al. (2005) *Plant Physiol* **137**: 1105-1114; Guerinot (2000) *Biochim Biophys Acta* **1465**: 190-198; Kataoka et al. (2004) *Plant Physiol* **136**: 4198-4204; Kim et al. (1998) *Plant Cell* **10**: 51-62; Lanquar et al. (2005) *Embo J* **24**: 4041-4051; Liu et al. (1999) *Plant Cell* **11**: 865-874 ; Loque et al. (2006) *Plant J* **48**: 522-534; Mäser et al. (2001) *Plant Physiol* **126**: 1646-1667; Misson et al. (2004) *Plant Mol Biol* **55**: 727-741; Orsel et al. (2002) *Plant Physiol* **129**: 886-896; Shin et al. (2004) *Plant J* **39**: 629-642; Takahashi et al. (2000) *Plant J* **23**: 171-182; Yoshioka et al. (2006) *Plant Cell* **18**: 747-763