

Table S1 *GmPINs* gene information

Gene name	Locus ID	Protein			Chromosome	Location (Mb)	Strand direction	Transmembrane helices	Subcellular localization
		Length	MW (kDa)	PI					
<i>GmPIN1a</i>	Glyma08g05900	603	66.039	8.52	Gm08	4.21	+	9	plas/chlo
<i>GmPIN1b</i>	Glyma07g11550	605	66.192	8.52	Gm07	9.74	+	9	plas
<i>GmPIN1c</i>	Glyma09g30700	605	66.307	8.33	Gm09	37.48	-	9	plas
<i>GmPIN1d</i>	Glyma03g28130	597	64.260	9.04	Gm03	36.01	+	8	plas
<i>GmPIN1e</i>	Glyma19g30900	578	62.023	8.55	Gm19	38.59	+	8	plas
<i>GmPIN2a</i>	Glyma13g00390	642	69.746	9.07	Gm13	0.14	+	9	plas
<i>GmPIN2b</i>	Glyma17g06460	637	69.033	9	Gm17	4.61	+	9	plas
<i>GmPIN3a</i>	Glyma07g34190	665	72.117	7.84	Gm07	39.10	-	9	plas
<i>GmPIN3b</i>	Glyma20g01760	666	75.517	7.54	Gm20	1.29	-	10	plas
<i>GmPIN3c</i>	Glyma07g22340	608	66.335	7.5	Gm07	23.72	+	9	plas
<i>GmPIN3d</i>	Glyma09g20580	634	69.338	7.59	Gm09	25.49	+	10	plas
<i>GmPIN5a</i>	Glyma09g38700	377	41.460	7.59	Gm09	44.00	-	9	vacu
<i>GmPIN5b</i>	Glyma18g47630	369	40.656	8.02	Gm18	57.23	+	9	vacu
<i>GmPIN6a</i>	Glyma13g09030	478	52.123	7.29	Gm13	10.03		9	plas/vacu
<i>GmPIN6b</i>	Glyma14g27900	531	85.120	8.62	Gm14	34.23	+	9	plas
<i>GmPIN8a</i>	Glyma05g23180	362	40.053	8.87	Gm05	28.77	+	8	chlo
<i>GmPIN8b</i>	Glyma17g16870	363	40.192	8.87	Gm17	13.67	-	8	chlo
<i>GmPIN8c</i>	Glyma09g37561	353	38.694	9.83	Gm09	43.09	+	8	chlo
<i>GmPIN8d</i>	Glyma18g49080	359	39.486	9.74	Gm18	58.47	-	8	plas
<i>GmPIN9a</i>	Glyma09g06970	443	49.504	9.07	Gm09	5.80	-	8	plas
<i>GmPIN9b</i>	Glyma15g18241	469	51.749	9.18	Gm15	14.90	-	5	cyto
<i>GmPIN9c</i>	Glyma09g13500	460	81.070	9.14	Gm09	14.98	+	9	plas
<i>GmPIN9d</i>	Glyma15g25690	492	54.290	8.02	Gm15	27.23	+	9	plas