



Figure S1: Chromosomal localization of SsnPR1 genes. Chromosome and gene names are indicated by black and red colors on the outer side of bars, respectively.

Table S1: Detailed information about Ssnpr1 orthologs.

Sr. No.	Query item	String ID	Identity	Bit score	Preferred name	Annotation
1	Ssnpr1.01	3702.AT 4G31470 .1	42.2	119.4	AT4G31470	Pathogenesis-related protein homolog; CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Expressed in root. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein match is: [...]
2	Ssnpr1.02	3702.AT 4G31470 .1	42.2	119.4	AT4G31470	Pathogenesis-related protein homolog; CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Expressed in root. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein match is: [...]
3	Ssnpr1.03	3702.AT 5G57625 .1	54.7	170.2	AT5G57625	CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Contains the following InterPro domains: Allergen V5/Tpx-1 related,

					conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein match is: CAP (cysteine-rich secretory proteins, antigen 5, and pat [...])
					CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein match is: CAP (Cysteine-rich secretory proteins, Antigen 5, and Pat [...])
4	SpnpPR1.04	3702.AT 5G57625 .1	57.5	179.9	AT5G57625
					CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown; Involved in biological_process unknown. Located in endomembrane system, extracellular region. Expressed in root. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein match is: CAP (cysteine-rich secretory proteins, [...])
5	SpnpPR1.05	3702.AT 4G25790 .1	46	145.2	AT4G25790

						Putative pathogenesis-related protein 1, 19.3K; CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Expressed in root. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein [...]
6	SpnpPR1.06	.1	47.5	147.5	AT4G33720	Putative pathogenesis-related protein 1, 19.3K; CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Expressed in root. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein [...]
7	SpnpPR1.07	.1	46.2	144.4	AT4G33720	CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Expressed in male gametophyte, pollen tube. Expressed during L mature pollen stage, M germinated pollen stage. Contains
8	SpnpPR1.08	.1	43.4	146.7	AT3G09590	

					the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IP [...])
					Putative pathogenesis-related protein 1, 19.3K; CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Expressed in root. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein [...]
9	SpnpPR1.09	3702.AT 4G33720 .1	46.3	126.7	AT4G33720
					CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Expressed in male gametophyte, pollen tube. Expressed during L mature pollen stage, M germinated pollen stage. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IP [...])
10	SpnpPR1.11	3702.AT 3G09590 .1	51.5	172.6	AT3G09590
		3702.AT 2G14610			
11	SpnpPR1.12	.1	51.2	162.9	PR1
					Pathogenesis-related protein 1. PR1 gene expression is induced in response to a variety of pathogens. It is a useful molecular marker for the SAR response. Though

						the Genbank record for the cDNA associated with this gene is called 'PR-1-like', the sequence actually corresponds to PR1. Expression of this gene is salicylic acid responsive.
						CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein match is: CAP (cysteine-rich secretory proteins, antigen 5, and pat [...])
12	SpnpPR1.13	.1	3702.AT 5G57625	56.6	165.6	AT5G57625
						CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein match is: CAP (cysteine-rich secretory proteins, antigen 5, and pat [...])
13	SpnpPR1.14	.1	3702.AT 5G57625	59	186	AT5G57625
						Pathogenesis-related protein 1. PR1 gene expression is induced in response to a variety of pathogens. It is a useful molecular marker for the SAR response. Though the Genbank record for the cDNA associated with this gene is called 'PR-1-like', the sequence actually
14	SpnpPR1.15	.1	3702.AT 2G14610	56.3	179.5	PR1

						corresponds to PR1. Expression of this gene is salicylic acid responsive.
						Pathogenesis-related protein 1. PR1 gene expression is induced in response to a variety of pathogens. It is a useful molecular marker for the SAR response. Though the Genbank record for the cDNA associated with this gene is called 'PR-1-like', the sequence actually corresponds to PR1. Expression of this gene is salicylic acid responsive.
15	SnpPR1.16	.1	56.3	179.5	PR1	
		3702.AT 2G14610				
16	SnpPR1.17	.1	52.1	151.4	AT5G57625	CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein match is: CAP (cysteine-rich secretory proteins, antigen 5, and pat [...])
		3702.AT 5G57625				
17	SnpPR1.18	.1	52.1	151.4	AT5G57625	CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein match is: CAP (cysteine-rich secretory proteins, antigen 5, and pat [...])
		3702.AT 5G57625				

					CAP (cysteine-rich secretory proteins, antigen 5, and pathogenesis-related 1 protein) superfamily protein. Its function is described as molecular_function unknown. Involved in biological_process unknown. Located in endomembrane system, extracellular region. Contains the following InterPro domains: Allergen V5/Tpx-1 related, conserved site (InterPro:IPR018244), Allergen V5/Tpx-1 related (InterPro:IPR001283), Ves allergen (InterPro:IPR002413), SCP-like extracellular (InterPro:IPR014044). BEST Arabidopsis thaliana protein match is: CAP (cysteine-rich secretory proteins, antigen 5, and pat [...]
18	SnpPR1.19	.1	52.1	151	AT5G57625