

Table S3. Distribution of serpins in different parts of the plant.

Serpins**	Localization	Author
	<i>Hordeum vulgare</i>	
		[48]
		[79]*
		[87]*
		[30]*
	Seeds/Grains	[99]*
		[31]*
BSZ7 (Serpin-Z7) (Q43492.2)		[111]*
		[113]*
		[122]*
		[121]*
	Seeds/Grains, embryos, embryo-derived callus, coleoptiles, shoots, roots	[61]
	Seeds/Grains, beer	[38]
	Beer	[89]*
		[103]*
		[73]
		[77]*
	Seeds/Grains	[79]*
		[90]*
		[30]*
		[111]*
		[121]*
BSZ4 (Serpin-Z4) (P06293.2)	Seeds/Grains, embryos, embryo-derived callus, roots, coleoptiles, leaves, shoots and senescing leaves,	[61]
	Seeds/Grains, beer	[38]
	Seeds/Grains, cytosol of transformed tobacco leaves	[22]
		[89]*
	Beer	[39]*
		[103]*
	Barley heads	[88]
		[83]*
		[91]*
Z-type serpin (CAA66232.1)	Seeds/Grains	[90]*
		[99]*
		[113]*
	Seeds/Grains, beer	[74]
		[81]*
		[79]*
	Seeds/Grains	[87]*
BSZx (Serpin-Zx) (Q40066.1)		[121]*
		[122]*
	Seeds/Grains, embryos, embryo-derived callus, roots, coleoptiles, shoots, leaf	[61]
	Beer	[89]*
SPZ5: Putative serpin-Z5 from <i>Oryza sativa</i> (Q53MD3)	Barley shoots (first leaves)	[96]*
Serpin (TC No.151425) vSRP3-2 (HORVU3Hr1G074320) HvSRP4-1 (HORVU4Hr1G013480) HvSRP5-1 (HORVU5Hr1G101710)	Leaf	[84]*
	Grain (caryopsis)	[123]

HvSRP5-2 (HORVU5Hr1G111860)		
HvSRP5-3 (HORVU5Hr1G111920)		
HvSRP6-1 (HORVU6Hr1G008650)		
HvSRP6-2 (HORVU6Hr1G008840)		
HvSRP1-1 (HORVU1Hr1G071460)	Root seedling, shoot seedling, internodal area	
HvSRP7-1 (HORVU7Hr1G008620)	Root seedling and internodes, embryo	
HvSRP4-3 (HORVU4Hr1G013550)		
HvSRP4-7 (HORVU4Hr1G079160)	Germinating embryo	
HvSRP6-3 (HORVU6Hr1G008860)		
HvSRP4-6 (HORVU4Hr1G064290)	Caryopsis, embryo	
<i>Triticum aestivum</i> L.		
WSZ1a (Serpín-Z1A) (Q41593.1)	Seeds/Grains	[16]
		[80]*
		[94]*
		[114]*
		[117]*
		[85]*
		[59]*
WSZ1b (Serpín-Z1B) (P93693)	Seeds/Grains, ovary, rachis, spike	[104]*
		[119]*
		[28]*
		[120]
		wheat flour
		[57]*
		Beer
WSZ1c (Serpín-Z1C) (Q9ST58)	Seeds/Grains	[103]*
		[16]
		[80]*
		[92]*
		[114]*
		[119]*
		[120]
WSZ2a (Serpín-Z2A) (Q9ST57)	Seeds/Grains	[54]*
		[102]*
		[104]*
		[119]*
		[28]*
		[120]
		wheat flour
WSZ2b (Serpín-Z2B) (Q9ST59)	Seeds/Grains, ovary, rachis, spike	[57]*
		[103]*
		[16]
		[80]*
		[92]*
		[102]*
		[104]*
WSZ2c (Serpín-Z2C) (Q9ST60)	Seeds/Grains	[119]*
		[28]*
		[120]
		wheat flour
		[54]*
		[102]*
		[104]*
WSZ2d (Serpín-Z2D) (Q9ST61)	Seeds/Grains	[117]*
		[85]*
		[59]*
		[104]*
		[119]*
		[28]*
		[120]

	Seeds/Grains, ovary, rachis, spike	[120]
	Beer	[103]*
	Leaves	[125]*
WSZ2b (Serpín-Z2B) (P93692)		[16]
		[80]*
		[85]*
		[94]*
	Seeds/Grains	[92]*
		[104]*
		[108]*
		[110]*
		[114]*
		[28]*
	Seeds/Grains, ovary, rachis, spike	[120]
	Wheat bran	[101]*
WSZ2c	Wheat flour	[54]*
		[57]*
	Beer	[103]*
	Leaves	[125]*
	Seeds/Grains, ovary, rachis, spike	[120]
TraesCS3B01G335800		
TraesCS4A01G422200		
TraesCS4B01G079100		
TraesCS6D01G048700	Seeds/Grains	
TraesCS3D01G301100		
TraesCS6D01G114700		
TraesCS2B01G530600		
TraesCS4B01G079200		[120]
TraesCS4A01G235700	Seeds/Grains, spike, rachis, ovary	
TraesCS4A01G436000		
TraesCS4A01G205200	Seeds/Grains, spike	
TraesCS4D01G231200		
TraesCS6B01G068900		
TraesCS4D01G106100	Seeds/Grains, spike, ovary	
Serpín 1 (Serpín Bu-1) (C0LF30)		[92]*
		[114]*
	Seeds/Grains	[117]*
		[110]*
		[104]*
	Leaves, roots	[106]
	Plants (it was not reported which part of the plant was used for feeding the insects)	[112]*
Serpín 2 (C0LF31)	Seeds/Grains	[100]*
		[110]*
	Leaves, roots	[106]
Serpín 3 (C0LF32)	Seeds/Grains	[100]*
	wheat flour	[57]*
Serpín-N3.2 (H9AXB3)		[100]*
	Seeds/Grains	[110]*
Serpín Bu-4		[92]*
<i>Srp5B</i>	Seeds/Grains	[98]*
Serpín (unreported identity)	Seeds/Grains	[109]*
Serpín (A0A3B6TLW2)	Seeds/Grains	[119]*
		[28]*
SERPIN domain- containing protein (A0A3B6MWJ8)		[119]*
	Seeds/Grains	[28]*

A0A3B6DK48		
A0A3B6HVL4		
A0A3B6IPZ0		
A0A3B6JDS9		
A0A3B6KQC8	Seeds/Grains	[28]*
A0A3B6KQL2		
A0A3B6KR02		
A0A3B6KSZ6		
A0A3B6SDG4		
A0A3B6SF67		
<i>Secale cereale</i>		
RSZ (a, b, c1, c2, d, e, f)	Seeds/Grains	[49]
<i>Avena sativa</i> L.		
OSZ (a, b, c, d)	Seeds/Grains	[50]
<i>Oryza sativa</i>		
<i>OsSRP-LRS</i>	Seeds/Grains, callus, seedling, roots, stems, leaves	[95]
(Os03g41419)	Leaf sheath, leaves	[19]
<i>OsSRP-PLP</i>		
(Os11g11500)		
<i>OsSRP-LGC</i>		
(Os01g56010)		
<i>OsSRP-FLC</i>	Seeds/Grains, callus, seedling, roots, stems, leaves	
(Os11g13540)		
<i>OsSRP-FRS</i>		[95]
(Os03g41438)		
<i>OsSRP-QKG</i>		
(Os01g16200)		
<i>OsSRP-FAZ</i>	Seeds/Grains, callus	
(Os11g12460)		
<i>OsSRP-PTY</i>	Seeds/Grains, seedling, roots, stems	
(Os04g45110)		
<i>OsSRP-ZXA</i>	Leaves	[126]*
(Q75H81)		
<i>Avena fatua</i> L.		
Protein Z (Z1)	Seeds/Grains	[75]
<i>Brachypodium distachyon</i>		
BdSRP2-1		
(Bradi2g50900)		
BdSRP4-10		
(Bradi4g23062)	Seeds, anther	
BdSRP4-11		
(Bradi4g23070)		
BdSRP4-16		
(Bradi4g24570)		
BdSRP4-1		
(Bradi4g14070)	Anther	[123]
BdSRP4-5		
(Bradi4g15390)		
BdSRP1-3		
(Bradi1g14740)	Embryo	
BdSRP4-7		
(Bradi4g22020)		
BdSRP5-5	Endosperm, pistil, seed	
(Bradi5g16780)		
BdSRP1-2	Seed, pistil and embryo	
(Bradi1g14730)		
AtSerp1	Root tip, subcellular localization in apoplast	[43]
(Q9S7T8)	Silique, flowers, stem, leaf, roots, seedlings	[86]
	Flowers, siliques, stem, leaf, root	[44]
	Seedling, leaf, subcellular localization in cytoplasm	[17]

	Leaf	[45]
	Seedling, hypocotyl, root, cotyledons, first leaves, hypocotyl (in <i>Arabidopsis</i>) and subcellular localization in leaf epidermis of <i>N. benthamiana</i>	[107]
	Seedlings, cotyledons of greening seedlings	[46]
	Root	[116]
	Leaves (rosette leaves), and subcellular localization in cytoplasm and nucleo of epidermal <i>N. benthamiana</i> cells by Agrobacterium-mediated transient expression	[18]
<i>AtSRP2 (At2g14540)</i>	Siliques, Flowers, subcellular localization in nucleus	[86]
<i>AtSRP3 (At1g64030)</i>	Siliques, flowers, subcellular localization in cytosol	
<i>AtSRP4 (At2g26390)</i>	Siliques, flowers, stem, leaves, roots, seedlings	[86]
	Leaves	[37]
<i>AtSRP5 (At2g25240)</i>	Leaves	
<i>Cucurbita máxima</i>		
	Stem (phloem exudate)	[51]
CmPS-1 (AAG02411.1)	Phloem (phloem exudate after germination): root–shoot transition region	[82]
	Phloem exudates, subcellular localization in <i>N. benthamiana</i> leaf epidermal cells	[23]
<i>Cucumis sativus</i>		
CsPS-1	Phloem (phloem exudate after germination): root–shoot transition region	[82]
<i>Malus domestica</i> Borkh.		
MdZ1a	Young fruit, buds, expanding leaves, vascular tissues	[52]
MdZ1b	Vegetative buds, cotyledons, seeds	
MdZ1c	Expanding leaves	
MdZ2a	Fruit, buds, seeds, leaves, vascular tissues	
<i>Medicago truncatula</i>		
<i>MtPi4</i>	Seed, root, leaf, stem and flower tissues	[65]
<i>MtSer (5, 6, 8, 9, 10)</i>	Nodules (root)	[20]
<i>Centaurea maculosa</i> (Spotted knapweed)		
CmSER-1	Leave	[76]
<i>Citrus paradisi</i> Macf. Cv. Marsh		
<i>serpL-1</i>	Grapefruit flavedo, Young immature and mature leaves	[78]
<i>Citrullus vulgaris</i>		
Serpin (no identification code)	Seeds	[93]
<i>Pyrus communis</i>		
Serpin-like protein (JK086945)	Leaves	[105]
JK086934		
<i>Solanum lycopersicum</i>		
Solyc04g079480.2	Abscission zone tissues after flower removal (R)	[115]
<i>Glycine max</i>		
Serpin-ZX: XP_003528230.1	Seeds	[124]
Serpin-ZX: XP_003523896.1		
<i>Agapanthus praecox</i>		
ApSerpin-ZX	Embryogenic callus	[53]
<i>Physcomitrella patens</i>		
Pp1s22_263V6.1	Moss	[118]*
Pp1s414_23V6.1		
Pp1s61_265V6.1		
Pp1s86_63V6.1		

*Refers to articles in which proteins were identified by proteomic analysis.

** Only serpins located by different experimental analyses or extracted from different tissues were counted. Recombinant serpins were not considered.