

	Signal peptide	Chitin-binding domain	
Class II	TcPR-4b	--MKMER---FCILLACLIVASAAQSGS-----	22
	MdPR-4	MAGKITASSVLFVFSIMICGLVGSALGSGS-----	28
	NtPR-4B	--MERVNYYKLCVALLIMSVMMAMAAQSGS-----	27
	CaPR-4	-----SMMVAMAAQSGS-----	11
	SlPR-4	--MERVN--KLCVAFFVINMMMAVAAQSGS-----	25
	Wheatwin1	-----MAARPLMLVALLCAAAAAATAQQ-----	23
	Wheatwin2	---MTMAARLMLVAALLCAAAAAATAQQ-----	25
	Barwin	-----EQ-----	2
	OsPR-4b	--MVMAMMRVRVMVVAVLCAVATMAMAQSGS-----	27
	LrPR4	---MAMERVSLVIVLLLLGLAAASFAQQ-----	24
Class I	AthEL	-----MKIRLSITITILLSYTVATVAGQQCGRQGGGRCPGNNCCSQYGYCGTTADYCSPT	55
	FaPR4	-----MGRLCFCVLVALLFLVVGSSAEQCGKQASGKTCFNNLCCSQYGCWGSTPEYCSRS	55
	CcPR-4	-----STTILLALVLFIVSGVANAQQCGRQGGGALCGGNLCCSQYGCWGSTPEYCSPS	53
	StWIN2	--MVKLSGCPILLALVLCISLTSVANAQQCGRQGGGALCGGNLCCSQYGCWGSTPEYCSPS	59
	NtCBP20	---MGKLSLTLLFALVLYV--IAAGANAQQCGRQGGGALCGSNLCCIQYGCWGSTQEYCSPS	56

::

Barwin domain

Class II	TcPR-4b	-----ASNVRATYHLYNPQNNDLTA--VSAFCATWDANKP	57
	MdPR-4	-----ATNVRATYHLYNPQNNYDLRA--VSAYCATWDADKS	63
	NtPR-4B	-----ATNVRSTYHLYNPQININWDLRA--ASAFCATWDADKP	62
	CaPR-4	-----ATNVRYNIPSYNPQININWDLRT--ASANCATWDADKP	46
	SlPR-4	-----ATNVRATYHLYNPQININWDLRT--ASVYCATWDADKP	60
	Wheatwin1	-----ATNVRATYHYYPRAQNNNDLGAFAVSAYCATWDASKP	60
	Wheatwin2	-----ATNVRATYHYYPRAQNNNDLGAFAVSAYCATWDASKP	62
	Barwin	-----ANDVRATYHYYPRAQNNNDLGAFAVSAYCATWDASKP	39
	OsPR-4b	-----ASNVRATYHYYPRAENNDLGAFAVSAYCATWDADKP	64
	LrPR4	-----ASNVRATYNIYNPAQNNNDLNLK--VGAYCATWDAGQP	59
Class I	AthEL	NNCQSNCWGSGSPSGPGE-----SASNVRATYHFYNPAQNNNDLRA--VSAYCSTWDADKP	108
	FaPR4	KGCQSN-----CGGGGDGA-----SANNIRATYHYYPNQNGWDLNA--VSAYCSTWDAGKP	105
	CcPR-4	QGCQSQCSGSGPTPE-----GSAQNVRATYHLYNPQNVGWDLNA--VSAYCSTWDANKP	105
	StWIN2	QGCQSQCTGSGPDPGQG---GSAQNVRATYHLYNPQNVGWDLNA--VSAYCSTWDANKP	113
	NtCBP20	QGCQSQCSGGGGGGGGGGGGGGAQNVRATYHIYNPQNVGWDLYA--VSAYCSTWDGNKP	114

* ::* : ** * : : **

... *:***:::

Barwin domain

Class II	TcPR-4b	LEWRRKYGWTAFCGPAGPRGQAACGKCLRVNTNTGTGAQTTRIVDQCSNGGLDLDDVN-VF	116
	MdPR-4	LEWRSKYGWTAFCGPAGPTGQAACGKCLLVNTNRTGAQTTRIVDQCSNGGLDLDDVN-VF	122
	NtPR-4B	LAWRQKYGWTAFCGPAGPRGQDSCGKCLRVNTNTGTGTQATTRIVDQCSNGGLDLDDVN-VF	121
	CaPR-4	LEWRQRYGWTAFCGPAGPTGQAACGKCLRVNTNTGTGTQATTRIVDQCSNGGLDLDDVY-VF	105
	SlPR-4	LEWRRRYGWTAFCGPAGPTGQAACGKCLRVNTNTGTGTQETTRIVDQCRNGGLDLDDVN-VF	119
	Wheatwin1	LSWRSKYGWTAFCGPAGAHGQAACGKCLQVNTNPATGAQITARIVDQCANGGLDLDDWDTVF	120
	Wheatwin2	LSWRSKYGWTAFCGPAGAHGQAACGKCLRVNTNPATGAQITARIVDQCANGGLDLDDWDTVF	122
	Barwin	LSWRSKYGWTAFCGPAGPRGQAACGKCLRVNTNPATGAQITARIVDQCANGGLDLDDWDTVF	99
	OsPR-4b	LEWRQKYGWTAFCGPVGPTGQDACGKCLSVNTNATGQITARIVDQCANGGLDLDDWDTVF	124
	LrPR4	LWWRQKYGWTAFCGPVGPTGQASCGKCLLVNTNQATGARQTVRIIDQCSNGGLDLDDQGV-VF	118
Class I	AthEL	YAWRSKYGWTAFCGPAGPRGQAACGKCLRVKNTNRTNAAVTVRIIDQCSNGGLDLDDVA-MF	167
	FaPR4	YSWRSKYGWTAFCGPAGPTGQAACGKCLRVNTNTYTQQLTVRIIDQCSNGGLDLDDYNTAF	165
	CcPR-4	LAWRSKYGWTAFCGPVGPRGQAACGKCLRVNTNRTRAQTTTRIVDQCSNGGLDLDDIN-VF	164
	StWIN2	YAWRSKYGWTAFCGPVGPRGRDSCGKCLRVNTNRTGAQTTTRIVDQCSNGGLDLDDIN-VF	172
	NtCBP20	LAWRRKYGWTAFCGPVGPRGRDSCGKCLRVNTNTGTGAQTTTRIVDQCSNGGLDLDDVN-VF	173

** :*****. * : :*.***. * * * *.** :*** ***** *

Barwin domain

Vacuolar signal

Class II	TcPR-4b	RQLDTNGNGIAQGHLIVNYDFVDCGD-----	142
	MdPR-4	NQIDTDGIGYQQGHLIVNYDFVDCGD-----	148
	NtPR-4B	NQLDTNGLGYQQGHLIVNYEFVNCND-----	147
	CaPR-4	NQLDTPRRGYQQGHLIVNYEFVNCND-----	131
	SlPR-4	NRLDTNGLGYQRGNLNVNYEFVNC-----	143
	Wheatwin1	TKIDTNGIGYQQGHLNVNYQFVDCRD-----	146
	Wheatwin2	TKIDTNGIGYQQGHLNVNYQFVDCRD-----	148
	Barwin	TKIDTNGIGYQQGHLNVNYQFVDCRD-----	125
	OsPR-4b	SKIDSDGGYQNGHLIVDYQFVDCGNN-----	151
	LrPR4	NQLDTNGQGYAQGHLTVSYQFVNC-----	142
Class I	AthEL	NQIDTDGFGYQQGHLIVDYQFVDCGNEILGQPPSRNMLVSAIDRV	212
	FaPR4	RKLDTDGRGYQQGHLIVNYQFVDCGNGFDGNPILLSVVDQ-----	205
	CcPR-4	RQIDTDGVGNGQQGHLMDVYQFVNCGDNVMVPLLSVVDQ-----	203
	StWIN2	QQIDTDGVGNGQQGHLIVNYQFVNCGDNVMVPLLSVVDKE-----	211
	NtCBP20	RQLDTDGRGNQRGHLIVNYEFVNCGDNMMV-LVSPVDKE-----	211

::*: * * * * * * *