

Supplementary Table 1 – Cross-reference of CPI sequences from *Solanaceae* species among databases

Species	Codes of CPI sequences in each database				
	UNIPROT	KNOTTIN	PDB	MEROPS	NCBI
<i>Capsicum annuum</i>					KAF36196291
<i>Capsicum chinense</i>	A0A2G3BXM1				PHU112411 / TYK035941
<i>Hyoscyamus niger</i>		Q9SXP0			
<i>Lycium barbarum</i> *				MER1384952	
<i>Nicotiana attenuata</i>	A0A314LB70				OIT383771
<i>Nicotiana sylvestris</i>	A0A1U7VZY9			MER0638028	
<i>Nicotiana tabacum</i>	E3W9P4	E3W9P4		MER0233254	BAJ257811
<i>Nicotiana tabacum</i>	E3W9P5 / A0A1S4BQ42	E3W9P5 / A0A1S4BQ42			BAJ257821
<i>Solanum chacoense</i>	A0A0V0GVX7	A0A0V0GVX7			
<i>Solanum habrochaites</i>	A0A089Q749	A0A089Q749			
<i>Solanum lycopersicum</i>		K4BWY9			
<i>Solanum lycopersicum</i>	P14903	FSPM	2HLG	MER0621328	NP0012347621
<i>Solanum lycopersicum</i>	P01076	MCPI		MER0018229	CAA419731 / NP0012339341
<i>Solanum lycopersicum</i>		K4CBJ6		MER0413511	XP0042427161
<i>Solanum lycopersicum</i>		K4CBJ5		MER0413510	
<i>Solanum lycopersicum</i>		K4BFC2			
<i>Solanum lycopersicum</i>		K4BFC1			
<i>Solanum lycopersicum</i>		K4BFC0			
<i>Solanum lycopersicum</i>		K4BFC4			
<i>Solanum lycopersicum</i>		K4BFC3			
<i>Solanum lycopersicum</i>		K4AW10			
<i>Solanum lycopersicum</i>		K4C6V3			
<i>Solanum palustre</i>	Q949A1	Q949A1			CAC481961
<i>Solanum pennellii</i> *					XP0150807211
<i>Solanum tuberosum</i>	P01075 / Q9SBH8	MCPI	1H20	MER0018230	NP0012750481 / AAC951301
<i>Solanum tuberosum</i>	M1A6J5				

<i>Solanum tuberosum</i>	M1D117	M1D117	
<i>Solanum tuberosum</i>		M1A257	
<i>Solanum tuberosum</i>		M1A255	
<i>Solanum tuberosum</i>		M1A258	
<i>Solanum tuberosum</i>		M1C2I1	
<i>Solanum tuberosum</i>		M1ACN3	
<i>Solanum tuberosum</i>		M1ACN4	
<i>Solanum tuberosum</i>		O24639	BAA214961 / BAA215001 / BAA214971 / NP0012753751 / AAZ941831
<i>Solanum tuberosum</i>		M1A6J6	
<i>Solanum tuberosum</i>		M0ZJ50	
<i>Solanum tuberosum</i>		Q3S486	NP0012754211 / NP0012751501 / AAZ941961 / AAZ941881 / AAZ941781
<i>Solanum tuberosum</i>	O24372	O24372	AIT422221 / BAA214931
<i>Solanum tuberosum</i>	Q948Z8	O24373	BAA214951
<i>Solanum tuberosum</i>	M1D4V9 / A0A097H170	Q948Z8	CAC482271
<i>Solanum tuberosum</i>	Q3S480	M1D4V9	AIT422191 / AIT422181
<i>Solanum tuberosum</i>	Q41432	Q3S480	NP0012754881 / AAZ941941 / AAZ941801
<i>Solanum tuberosum</i>	A0A097H167	Q41432	AIT422231 / AIT422211 / AIT422201 / BAA214941 / AAC496011
<i>Solanum tuberosum</i>		A0A097H167	AIT422171
<i>Solanum tuberosum</i> *			MER0615019
<i>Solanum tuberosum</i> *	A0A0A0VBW2		

*Fasta sequences of *Solanaceae* carboxypeptidase inhibitors found in databases, but not included in analyses – colored by light gray.