

**Supplementary Table S2 The detailed information of XYLP proteins characterize in pepper, tomato and potato.**

Name <sup>a</sup>	Subfamily <sup>b</sup>	Locus <sup>c</sup>	Size (aa)	Signal <sup>d</sup>	nsLTP <sup>e</sup>	GPI <sup>f</sup>
CanXYLP1	Clade1	Capana08g002006	184	1-26	36-118	160-184
CanXYLP2	Clade1	Capana06g000685	189	1-30	47-130	164-189
CanXYLP3	Clade2	Capana06g000094	157	1-21	26-105	128-157
CanXYLP4	Clade2	Capana06g000095	190	1-25	29-107	165-190
CanXYLP5	Clade2	Capana06g000084	190	1-25	29-107	165-190
CanXYLP6	Clade3	Capana01g001516	197	1-29	38-113	169-197
CanXYLP7	Clade3	Capana01g003235	196	1-24	32-111	166-196
CanXYLP8	Clade3	Capana01g003236	188	1-20	27-106	158-188
CanXYLP9	Clade4A	Capana01g000497	152	1-26	32-103	129-152
CanXYLP10	Clade4A	Capana03g000752	188	1-22	51-126	162-188
SlyXYLP1	Clade1	Solyc01g105010.2.1	186	1-27	37-119	162-186
SlyXYLP2	Clade1	Solyc06g073660.2.1	185	1-27	44-127	None
SlyXYLP3	Clade1	Solyc11g072030.1.1	206	1-25	56-134	182-206
SlyXYLP4	Clade2	Solyc09g082270.2.1	165	1-24	30-110	140-165
SlyXYLP5	Clade2	Solyc03g005200.2.1	171	1-26	32-111	144-171
SlyXYLP6	Clade2	Solyc09g065410.2.1	158	1-25	30-99	129-158
SlyXYLP7	Clade2	Solyc09g065420.2.1	172	1-26	30-110	148-172
SlyXYLP8	Clade2	Solyc09g065430.2.1	186	1-25	29-107	163-186
SlyXYLP9	Clade2	Solyc09g082280.2.1	174	1-28	32-109	149-174
SlyXYLP10	Clade3	Solyc01g005990.2.1	193	1-27	34-108	166-193
SlyXYLP11	Clade3	Solyc01g073680.2.1	194	1-24	33-111	163-194
SlyXYLP12	Clade4A	Solyc08g079250.2.1	151	1-25	31-102	129-151
SlyXYLP13	Clade4A	Solyc08g007460.2.1	151	1-24	31-103	127-151
SlyXYLP14	Clade4A	Solyc03g118580.2.1	177	1-23	47-123	155-177
SlyXYLP15	Clade4B	Solyc05g015490.2.1	186	1-22	32-114	156-186
SlyXYLP16	Clade4B	Solyc09g082310.1.1	236	1-19	37-112	206-236
SlyXYLP17	Clade4B	Solyc08g078910.1.1	131	1-22	51-130	None
SlyXYLP18	Clade4B	Solyc09g082290.2.1	221	1-28	40-112	198-221
SlyXYLP19	Clade4C	Solyc09g065440.2.1	254	1-34	45-119	223-254
SlyXYLP20	Clade4C	Solyc06g054030.2.1	190	1-32	35-103	165-190
SlyXYLP21	Clade4C	Solyc09g082300.2.1	236	1-30	40-110	212-236
SlyXYLP22	Clade4C	Solyc03g119620.1.1	185	1-21	35-111	160-185
StuXYLP1	Clade1	PGSC0003DMP400022245	186	1-27	38-117	161-186

StuXYLP2	Clade1	PGSC0003DMP400047651	207	1-26	56-135	None
StuXYLP3	Clade2	PGSC0003DMP400056409	198	1-23	31-114	None
StuXYLP4	Clade2	PGSC0003DMP400008413	133	1-22	49-132	None
StuXYLP5	Clade2	PGSC0003DMP400050496	194	1-25	33-111	163-194
StuXYLP6	Clade2	PGSC0003DMP400055381	191	1-27	34-115	163-191
StuXYLP7	Clade2	PGSC0003DMP400009912	186	1-22	36-112	159-186
StuXYLP8	Clade2	PGSC0003DMP400055448	175	1-29	32-110	149-175
StuXYLP9	Clade2	PGSC0003DMP400028502	150	1-30	33-113	None
StuXYLP10	Clade2	PGSC0003DMP400033570	174	1-27	30-108	None
StuXYLP11	Clade3	PGSC0003DMP400034938	185	1-26	29-107	155-185
StuXYLP12	Clade3	PGSC0003DMP400033569	186	1-26	29-107	160-186
StuXYLP13	Clade4A	PGSC0003DMP400055449	165	1-25	30-108	139-165
StuXYLP14	Clade4A	PGSC0003DMP400023778	169	1-25	30-108	141-169
StuXYLP15	Clade4C	PGSC0003DMP400034936	152	1-22	26-105	125-152
StuXYLP16	Clade4C	PGSC0003DMP400028420	209	1-25	30-110	183-209
StuXYLP17	Clade4B	PGSC0003DMP400055466	222	1-29	35-116	198-222
StuXYLP18	Clade4B	PGSC0003DMP400008483	152	1-27	31-103	129-152
StuXYLP19	Clade4C	PGSC0003DMP400010019	179	1-24	49-123	156-179

a Systematic designation given to XYLPs.

b XYLPs are divided into four clades.

c Locus numbers.

d N-terminal Signal peptide region.

e Plant lipid transfer domain region.

f C-terminal GPI-anchored signal.