

S2 Table: Percentage identity and similarity generated by MATGAT V 2.0 software for plant cyclophilins from different organism viz. *Triticum aestivum* (TaCypA-1), *Cajanus cajan* (CcCyp), *Camellia sinensis* (CsCyp), *Arabidopsis thaliana* (AtCyp18-3, AtCyp19-2, AtCyp19-1, AtCyp18-4, AtCyp19-3, AtCyp20-3), *Thellungiella halophila* (ThCyp1), *Oryza sativa* (OsCyp2) and *Schistosoma mansoni* (SmCypA).

Identity %

	AtCyp19-3	TaCypA-1	AtCyp18-3	AtCyp19-1	AtCyp20-3	AtCyp18-4	AtCyp19-2	CcCyp	ThCyp1	OsCyp2	SmCypA	CsCYP
AtCyp19-3		69.9	72.7	65.0	41.8	72.7	72.3	60.2	74.0	71.0	62.8	76.1
TaCypA-1	80.7		79.1	66.5	41.7	75.0	79.3	64.0	80.9	86.6	61.5	83.1
AtCyp18-3	82.4	85.5		71.7	42.1	78.5	90.2	69.2	83.2	78.5	60.9	84.3
AtCyp19-1	73.3	74.3	79.7		37.8	69.4	69.5	56.6	78.0	66.5	56.4	73.4
AtCyp20-3	50.6	50.6	50.6	45.9		38.7	43.6	33.8	42.5	39.8	39.0	41.7
AtCyp18-4	81.8	82.0	86.6	79.1	47.9		77.0	64.5	81.5	76.2	59.8	81.4
AtCyp19-2	86.4	87.9	95.4	79.9	51.7	86.2		67.2	83.3	78.2	61.1	81.6
CcCyp	70.5	73.8	77.3	66.9	44.0	76.7	77.0		65.9	62.2	50.8	72.1
ThCyp1	85.8	86.7	90.2	82.7	51.0	90.2	94.3	76.3		80.9	59.8	85.5
OsCyp2	81.8	90.7	84.3	73.3	49.4	82.0	86.8	70.3	87.9		60.9	83.1
SmCypA	73.3	73.8	76.7	68.6	50.2	70.9	77.0	64.5	75.1	76.2		60.9
CsCYP	84.7	86.6	91.3	80.2	49.8	89.0	91.4	81.4	91.3	86.6	76.2	

Similarity %