

**Table S6.** CCV AP5 complex proteins from Arabidopsis (*A. thaliana*) cytosol (retrieved from Hirst et al, 2011), and human (*H. sapiens*) cytosol (retrieved from Uniprot). Domains of these proteins were extracted using Prosite and Pfam, then run against the chloroplast protein dataset to identify proteins putatively involved in vesicle transport inside chloroplasts.

Organism, Accession No., Uniprot ID	Prosite profile/pattern, Entry No.	Chloroplast proteins, Prosite Entry No.	Pfam profile/pattern, Entry No.	Chloroplast proteins, Pfam Entry No.
<b>ζ subunit</b>				
<i>A. thaliana</i> , At3g15160, Q8H1F1	n.d.	-	AP-5 complex subunit, vesicle trafficking: PF14764	PF14764: n.d.
<i>H. sapiens</i> , NP_055670.1, O43299	n.d.	-	AP-5 complex subunit, vesicle trafficking: PF14764	PF14764: n.d.
<b>β5 subunit</b>				
<i>A. thaliana</i> , At3g19870, F4JCE9	n.d.	-	n.d	-
<i>H. sapiens</i> , NP_612377.3, Q2VPB7	n.d.	-	n.d	-
<b>μ5 subunit</b>				
<i>A. thaliana</i> , At2g20790, Q8WOZ6	Mu homology domain (MHD) profile: PS51072  Clathrin adaptor complexes medium chain signature 2: PS00991  EF-hand calcium-binding domain PS00018	PS51072: At5g57460  PS00991: n.d.  PS00018: At1g02150, At1g18890, At1g33790, At2g35800, At2g44990, At3g17470, At3g50770, At4g21940, At5g06043, At5g22800, At5g42380	Adaptor complexes medium subunit family: PF00928	PF00928: n.d.
<i>H. sapiens</i> , NP_060699.3, Q9HOR1	Mu homology domain (MHD) profile: PS51072	PS51072: At5g57460	Adaptor complexes medium subunit family: PF00928	PF00928: n.d.
<b>σ5 subunit</b>				
<i>H. sapiens</i> , NP_060817.1, Q9NUS5	n.d.	-	AP-5 complex subunit sigma-1: PF15001	PF15001: n.d.

n.d., not detected