

Online Supporting Information S2b. A head-to-head comparison between the results predicted by **iLoc-Plant** and those by **TargetP** (Emanuelsson et al. J. Mol. Biol., 2000, 300, 1005-1016) on the 100 independent single-location proteins listed in the [Online Supporting Information S2a](#). For facilitating comparison, the corresponding experimental subcellular locations as annotated in Swiss-Prot databank (Release 2011Other06 of 31-May-11) are also given. The web-server of **TargetP** is at <http://www.cbs.dtu.dk/services/TargetP/>.

Accession number	iLoc-Plant	TargetP	Experimental result annotated in Swiss-Prot database
A6BM42	Chloroplast	Other	Chloroplast
A9LYD5	Chloroplast	Other	Chloroplast
B2Y1Z2	Chloroplast	Mitochondrion	Chloroplast
O20241	Chloroplast	Other	Chloroplast
O22137	Chloroplast	Other	Chloroplast
O78258	Chloroplast	Other	Chloroplast
O78259	Chloroplast	Other	Chloroplast
O78261	Chloroplast	Other	Chloroplast
O81192	Chloroplast	Chloroplast	Chloroplast
O81852	Chloroplast	Chloroplast	Chloroplast
P00221	Chloroplast	Chloroplast	Chloroplast
P00235	Chloroplast	Other	Chloroplast
P00870	Chloroplast	Secretory pathway	Chloroplast
P00874	Chloroplast	Other	Chloroplast
P00875	Chloroplast	Other	Chloroplast
P00876	Chloroplast	Other	Chloroplast
P05348	Chloroplast	Chloroplast	Chloroplast
P06292	Chloroplast	Other	Chloroplast
P06364	Chloroplast	Mitochondrion	Chloroplast
P06368	Chloroplast	Chloroplast	Chloroplast
P06370	Chloroplast	Other	Chloroplast
P06385	Chloroplast	Mitochondrion	Chloroplast
P06388	Chloroplast	Other	Chloroplast

P06390	Chloroplast	Other	Chloroplast
P06589	Chloroplast	Other	Chloroplast
P07854	Chloroplast	Chloroplast	Chloroplast
P08527	Chloroplast	Chloroplast	Chloroplast
P09559	Chloroplast	Chloroplast	Chloroplast
P11383	Chloroplast	Other	Chloroplast
P28441	Chloroplast	Other	Chloroplast
P30827	Chloroplast	Other	Chloroplast
P30828	Chloroplast	Other	Chloroplast
P34915	Chloroplast	Other	Chloroplast
P36476	Chloroplast	Other	Chloroplast
P43188	Chloroplast	Other	Chloroplast
P43223	Chloroplast	Other	Chloroplast
P43225	Chloroplast	Other	Chloroplast
P48694	Chloroplast	Other	Chloroplast
P48696	Chloroplast	Other	Chloroplast
P48701	Chloroplast	Other	Chloroplast
P48710	Chloroplast	Other	Chloroplast
P48711	Chloroplast	Other	Chloroplast
P48714	Chloroplast	Other	Chloroplast
P48719	Chloroplast	Other	Chloroplast
P49080	Chloroplast	Chloroplast	Chloroplast
P52426	Chloroplast	Chloroplast	Chloroplast
P53780	Chloroplast	Chloroplast	Chloroplast
P56648	Chloroplast	Other	Chloroplast
P59381	Chloroplast	Mitochondrion	Chloroplast
P69249	Chloroplast	Chloroplast	Chloroplast
P05488	Mitochondrion	Other	Mitochondrion
P07924	Mitochondrion	Other	Mitochondrion
P08977	Mitochondrion	Other	Mitochondrion
P14875	Mitochondrion	Mitochondrion	Mitochondrion
P15758	Mitochondrion	Other	Mitochondrion

P16048	Mitochondrion	Mitochondrion	Mitochondrion
P23209	Mitochondrion	Mitochondrion	Mitochondrion
P25855	Mitochondrion	Chloroplast	Mitochondrion
P26860	Mitochondrion	Other	Mitochondrion
P26861	Mitochondrion	Secretory pathway	Mitochondrion
P26862	Mitochondrion	Other	Mitochondrion
P26865	Mitochondrion	Other	Mitochondrion
P26866	Mitochondrion	Other	Mitochondrion
P26869	Mitochondrion	Other	Mitochondrion
P26872	Mitochondrion	Other	Mitochondrion
P26874	Mitochondrion	Other	Mitochondrion
P27527	Mitochondrion	Mitochondrion	Mitochondrion
P27754	Mitochondrion	Other	Mitochondrion
P27928	Mitochondrion	Mitochondrion	Mitochondrion
P31843	Mitochondrion	Other	Mitochondrion
P42793	Mitochondrion	Other	Mitochondrion
P46254	Mitochondrion	Mitochondrion	Mitochondrion
P46773	Mitochondrion	Mitochondrion	Mitochondrion
P46801	Mitochondrion	Other	Mitochondrion
P49359	Mitochondrion	Mitochondrion	Mitochondrion
P49360	Mitochondrion	Mitochondrion	Mitochondrion
P49361	Mitochondrion	Mitochondrion	Mitochondrion
P49362	Mitochondrion	Mitochondrion	Mitochondrion
P49363	Mitochondrion	Mitochondrion	Mitochondrion
P49386	Mitochondrion	Mitochondrion	Mitochondrion
P49387	Mitochondrion	Other	Mitochondrion
P49388	Mitochondrion	Other	Mitochondrion
P49389	Mitochondrion	Other	Mitochondrion
P50433	Mitochondrion	Mitochondrion	Mitochondrion
P51409	Mitochondrion	Other	Mitochondrion
P54260	Mitochondrion	Mitochondrion	Mitochondrion
P92557	Mitochondrion	Other	Mitochondrion

P92969	Cytoplasm	Mitochondrion	Mitochondrion
P93255	Mitochondrion	Chloroplast	Mitochondrion
P93256	Mitochondrion	Mitochondrion	Mitochondrion
P93311	Cytoplasm	Mitochondrion	Mitochondrion
Q01899	Cytoplasm	Mitochondrion	Mitochondrion
Q01902	Mitochondrion	Other	Mitochondrion
Q04715	Mitochondrion	Other	Mitochondrion
Q05045	Cytoplasm	Mitochondrion	Mitochondrion
Q84LB6	Nucleus	Mitochondrion	Mitochondrion
Q8H107	Nucleus	Mitochondrion	Mitochondrion
Q9MF82	Mitochondrion	Other	Mitochondrion
Q9SIB9	Mitochondrion	Chloroplast	Mitochondrion
Q9ZT91	Mitochondrion	Chloroplast	Mitochondrion