

Online Supporting Information S3b. A head-to-head comparison between the results predicted by **iLoc-Plant** and those by **Predotar** (Small et al. Proteomics, 2004, 4, 1581-1590) on the 150 independent single-location proteins listed in the [Online Supporting Information S3a](#). 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 **Predotar** is at <http://urgi.versailles.inra.fr/predotar/predotar.html>; its output “none” means no target was found while “ER” means Endoplasmic Reticulum.

Accession number	iLoc-Plant	Predotar	Experimental result annotated in Swiss-Prot database
A2RVT6	Endoplasmic Reticulum	none	Endoplasmic Reticulum
O24594	Endoplasmic Reticulum; Peroxisome	none	Endoplasmic Reticulum
O48958	Endoplasmic Reticulum	possibly plastid	Endoplasmic Reticulum
O64837	Endoplasmic Reticulum	none	Endoplasmic Reticulum
O80505	Endoplasmic Reticulum	possibly ER	Endoplasmic Reticulum
O81117	Endoplasmic Reticulum	ER	Endoplasmic Reticulum
O82352	Endoplasmic Reticulum	none	Endoplasmic Reticulum
P0C941	Endoplasmic Reticulum	possibly ER	Endoplasmic Reticulum
P32291	Endoplasmic Reticulum	none	Endoplasmic Reticulum
P36183	Endoplasmic Reticulum	ER	Endoplasmic Reticulum
P37116	Peroxisome	none	Endoplasmic Reticulum
P48626	Endoplasmic Reticulum	none	Endoplasmic Reticulum
P48630	Peroxisome	none	Endoplasmic Reticulum
P93030	Vacuole	none	Endoplasmic Reticulum
P93825	Endoplasmic Reticulum	ER	Endoplasmic Reticulum
P98188	Endoplasmic Reticulum	ER	Endoplasmic Reticulum
Q01559	Endoplasmic Reticulum; Peroxisome	none	Endoplasmic Reticulum
Q05001	Peroxisome	none	Endoplasmic Reticulum
Q2QMH2	Vacuole	none	Endoplasmic Reticulum
Q2R224	Vacuole	none	Endoplasmic Reticulum
Q39208	Peroxisome	none	Endoplasmic Reticulum
Q39287	Peroxisome	none	Endoplasmic Reticulum
Q56X72	Endoplasmic Reticulum	none	Endoplasmic Reticulum

Q6DR04	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q6IV13	Peroxisome	ER	Endoplasmic Reticulum
Q6NPD8	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q6NQI8	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q84TJ0	Vacuole	possibly ER	Endoplasmic Reticulum
Q8GWH5	Endoplasmic Reticulum	ER	Endoplasmic Reticulum
Q8GYH6	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q8L586	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q8LDS3	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q8VY97	Endoplasmic Reticulum	ER	Endoplasmic Reticulum
Q8W4Y5	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q94CC0	Endoplasmic Reticulum	ER	Endoplasmic Reticulum
Q9FFS0	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q9FK43	Endoplasmic Reticulum	ER	Endoplasmic Reticulum
Q9LJQ5	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q9LMI4	Cytoplasm	none	Endoplasmic Reticulum
Q9LT71	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q9M145	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q9M1K3	Endoplasmic Reticulum	ER	Endoplasmic Reticulum
Q9M392	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q9M6A3	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q9M8W5	Endoplasmic Reticulum	ER	Endoplasmic Reticulum
Q9SLG2	Endoplasmic Reticulum	ER	Endoplasmic Reticulum
Q9SS37	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q9XFW4	Cytoplasm	ER	Endoplasmic Reticulum
Q9ZTN2	Endoplasmic Reticulum	none	Endoplasmic Reticulum
Q9ZU43	Endoplasmic Reticulum	none	Endoplasmic Reticulum
O04866	Mitochondrion	possibly mitochondrial	Mitochondrion
O23936	Mitochondrion	none	Mitochondrion
O49849	Mitochondrion	none	Mitochondrion
O49850	Mitochondrion	mitochondrial	Mitochondrion
O49852	Mitochondrion	mitochondrial	Mitochondrion
O49954	Mitochondrion	mitochondrial	Mitochondrion

O80988	Mitochondrion	mitochondrial	Mitochondrion
P05488	Mitochondrion	none	Mitochondrion
P07924	Mitochondrion	none	Mitochondrion
P08977	Mitochondrion	none	Mitochondrion
P14875	Mitochondrion	none	Mitochondrion
P15758	Mitochondrion	none	Mitochondrion
P16048	Mitochondrion	plastid	Mitochondrion
P23209	Mitochondrion	mitochondrial	Mitochondrion
P25855	Mitochondrion	plastid	Mitochondrion
P26860	Mitochondrion	none	Mitochondrion
P26861	Mitochondrion	possibly ER	Mitochondrion
P26862	Mitochondrion	possibly mitochondrial	Mitochondrion
P26864	Mitochondrion	possibly mitochondrial	Mitochondrion
P26865	Mitochondrion	none	Mitochondrion
P26866	Mitochondrion	possibly mitochondrial	Mitochondrion
P26869	Mitochondrion	possibly mitochondrial	Mitochondrion
P26872	Mitochondrion	none	Mitochondrion
P26873	Mitochondrion	none	Mitochondrion
P26874	Mitochondrion	possibly mitochondrial	Mitochondrion
P27527	Mitochondrion	possibly mitochondrial	Mitochondrion
P27754	Mitochondrion	none	Mitochondrion
P27928	Mitochondrion	none	Mitochondrion
P31843	Mitochondrion	none	Mitochondrion
P42793	Mitochondrion	none	Mitochondrion
P46254	Mitochondrion	mitochondrial	Mitochondrion
P46773	Mitochondrion	none	Mitochondrion
P46801	Mitochondrion	possibly mitochondrial	Mitochondrion
P49359	Mitochondrion	plastid	Mitochondrion
P49360	Mitochondrion	plastid	Mitochondrion

P49361	Mitochondrion	possibly mitochondrial	Mitochondrion
P49362	Mitochondrion	mitochondrial	Mitochondrion
P49363	Mitochondrion	none	Mitochondrion
P49386	Mitochondrion	none	Mitochondrion
P49387	Mitochondrion	none	Mitochondrion
P49388	Mitochondrion	none	Mitochondrion
P49389	Mitochondrion	possibly mitochondrial	Mitochondrion
P50433	Mitochondrion	possibly mitochondrial	Mitochondrion
P51409	Mitochondrion	none	Mitochondrion
P54260	Mitochondrion	none	Mitochondrion
P92557	Mitochondrion	none	Mitochondrion
P93255	Mitochondrion	plastid	Mitochondrion
P93256	Mitochondrion	possibly mitochondrial	Mitochondrion
Q01902	Mitochondrion	none	Mitochondrion
Q04715	Mitochondrion	mitochondrial	Mitochondrion
A2T833	Chloroplast; Plastid	mitochondrial	Plastid
A7M8Y6	Plastid	none	Plastid
A7M8Y9	Plastid	none	Plastid
A7M8Z0	Plastid	none	Plastid
A7M8Z1	Plastid	possibly ER	Plastid
A7M8Z6	Plastid	none	Plastid
A7M8Z7	Plastid	possibly mitochondrial	Plastid
A7M8Z9	Chloroplast; Plastid	none	Plastid
A7M902	Plastid	none	Plastid
A7M906	Plastid	none	Plastid
A7M908	Plastid	none	Plastid
A7M910	Plastid	possibly mitochondrial	Plastid
A7M918	Plastid	none	Plastid
A7M919	Plastid	none	Plastid
A7M922	Vacuole	none	Plastid

A7M927	Plastid	none	Plastid
A7M932	Plastid	none	Plastid
A7M942	Plastid	none	Plastid
A7M943	Plastid	none	Plastid
A7M944	Plastid	none	Plastid
A7M948	Plastid	none	Plastid
A7M951	Plastid	none	Plastid
A7M952	Plastid	none	Plastid
A7M953	Plastid	ER	Plastid
A7M954	Plastid	none	Plastid
A7M956	Plastid	none	Plastid
A7M957	Cytoplasm; Plastid	none	Plastid
A7M958	Vacuole	none	Plastid
A7M961	Plastid	none	Plastid
A7M962	Plastid	possibly mitochondrial	Plastid
A7M967	Plastid	none	Plastid
A7M969	Plastid	plastid	Plastid
A7M974	Plastid	ER	Plastid
A7M986	Chloroplast; Plastid	mitochondrial	Plastid
A7M998	Chloroplast; Plastid	none	Plastid
A7M9A1	Chloroplast; Plastid	none	Plastid
A8W3B6	Vacuole	none	Plastid
A8W3C6	Chloroplast; Plastid	mitochondrial	Plastid
A8W3F4	Chloroplast; Plastid	none	Plastid
A8W3F6	Chloroplast; Plastid	none	Plastid
P30063	Vacuole	none	Plastid
P42054	Plastid	possibly mitochondrial	Plastid
P42057	Plastid	possibly plastid	Plastid
P46292	Plastid	none	Plastid
P48528	Plastid	none	Plastid
P48529	Plastid	none	Plastid
Q00383	Plastid	ER	Plastid

Q42435	Plastid	plastid	Plastid
Q8SKY1	Nucleus	none	Plastid
Q96398	Plastid	Plastid	Plastid