

Genes for polypeptide subunits of protein complexes of the photosynthetic apparatus

		Eukaryote			Prokaryote
Gene	Product	<i>Arabidopsis thaliana</i>	<i>Chlamydomonas reinhardtii</i>	<i>Cyanidioschyzon merolae</i>	<i>Thermosynechococcus elongatus</i>
Photosystem II					
<i>psbA</i>	D ₁	● ^a	●	●	●
<i>psbB</i>	CP47	●	●	●	●
<i>psbC</i>	CP43	●	●	●	●
<i>psbD</i>	D ₂	●	●	●	●
<i>psbE</i>	Cytochrome <i>b</i> ₅₅₉ α	●	●	●	●
<i>psbF</i>	Cytochrome <i>b</i> ₅₅₉ β	●	●	●	●
<i>psbH</i>	PsbH	●	●	●	●
<i>psbI</i>	PsbI	●	●	●	●
<i>psbJ</i>	PsbJ	●	●	●	●
<i>psbK</i>	PsbK	●	●	●	●
<i>psbL</i>	PsbL	●	●	●	●
<i>psbM</i>	PsbM	●	●	●	●
<i>psbN</i>	PsbN	●	●	●	●
<i>psbO</i>	OEC33	●	●	●	●
<i>psbP</i>	OEC23	●	●	●	●
<i>psbQ</i>	OEC16	●	●	●	●
<i>psbR</i>	PsbR	●	●	●	●
<i>psbS</i>	PsbS	●	●	●	●
<i>psbTc</i>	PsbTc (Ycf8)	●	●	●	●
<i>psbTn</i>	PsbTn	●	●	●	●
<i>psbU</i>	PsbU	●	●	●	●
<i>psbV</i>	Cytochrome <i>c</i> ₅₅₀	●	●	●	●
<i>psbW</i>	PsbW	●	●	●	●
<i>psbX</i>	PsbX	●	●	●	●
<i>psbY</i>	PsbY	●	●	●	●
<i>psbZ</i>	PsbZ (Ycf9)	●	●	●	●
<i>psb27</i>	Psb27	●	●	●	●
<i>psb28</i>	Psb28	●	●	●	●
<i>psb29</i>	Psb29	●	●	●	●
<i>psb30</i>	Psb30	●	●	●	●
<i>psb31</i>	Psb31	●	●	●	●
<i>lhcb</i>	LHC II	●	●	●	●
Cytochrome <i>b</i> ₆ <i>f</i>					
<i>petA</i>	Cytochrome <i>f</i>	●	●	●	●
<i>petB</i>	Cytochrome <i>b</i> ₆	●	●	●	●
<i>petC</i>	Rieske Fe-S	●	●	●	●
<i>petD</i>	Subunit IV	●	●	●	●
<i>petG</i>	Subunit G	●	●	●	●
<i>petL</i>	Subunit L	●	●	●	●
<i>petM</i>	Subunit M	●	●	●	●
<i>petN</i>	Subunit N	●	●	●	●
<i>petO</i>	Subunit V	●	●	●	●
Photosystem I					
<i>psaA</i>	PsaA	●	●	●	●
<i>psaB</i>	PsaB	●	●	●	●
<i>psaC</i>	PsaC	●	●	●	●
<i>psaD</i>	PsaD	●	●	●	●
<i>psaE</i>	PsaE	●	●	●	●
<i>psaF</i>	PsaF	●	●	●	●
<i>psaG</i>	PsaG	●	●	●	●
<i>psaH</i>	PsaH	●	●	●	●
<i>psaI</i>	PsaI	●	●	●	●
<i>psaJ</i>	PsaJ	●	●	●	●
<i>psaK</i>	PsaK	●	●	●	●
<i>psaL</i>	PsaL	●	●	●	●
<i>psaM</i>	PsaM	●	●	●	●
<i>psaN</i>	PsaN	●	●	●	●
<i>psaO</i>	PsaO	●	●	●	●
<i>psaP</i>	PsaP	●	●	●	●
<i>psaX</i>	PsaX	●	●	●	●
<i>lhca</i>	LHC I	●	●	●	●
ATP synthase					
<i>atpA</i>	α -subunit	●	●	●	●
<i>atpB</i>	β -subunit	●	●	●	●
<i>atpC</i>	γ -subunit	●	●	●	●
<i>atpD</i>	δ -subunit	●	●	●	●
<i>atpE</i>	ϵ -subunit	●	●	●	●
<i>atpF</i>	Subunit I	●	●	●	●
<i>atpG</i>	Subunit II	●	●	●	●
<i>atpH</i>	Subunit III	●	●	●	●
<i>atpI</i>	Subunit IV	●	●	●	●
Phycobiliproteins					
<i>apcA</i>	Allophycocyanin α	●	●	●	●
<i>apcB</i>	Allophycocyanin β	●	●	●	●
<i>apcD</i>	Allophycocyanin α -B	●	●	●	●
<i>apcF</i>	Allophycocyanin β -18	●	●	●	●
<i>cpcA</i>	Phycocyanin α	●	●	●	●
<i>cpcB</i>	Phycocyanin β	●	●	●	●
Rubisco					
<i>rbcL</i>	large subunit	●	●	●	●
<i>rbcS</i>	small subunit	●	●	●	●
PC					
<i>petE</i>	Plastocyanin	●	●	●	●
Cytochrome <i>c</i> ₆					
<i>petJ</i>	Cytochrome <i>c</i> ₆	●	●	●	●
FRX					
<i>petF</i>	Ferredoxin	●	●	●	●
FNR					
<i>petH</i>	FNR	●	●	●	●

^a Green indicates that the gene concerned is located in the chloroplast, and yellow indicates that the gene concerned is located in the nucleus. Grey indicates absence of a gene, as inferred from the complete nuclear and chloroplast genome sequences of the species represented.