

Table 1 Information about PHOTOSYSTEMII D2 protein

UniprotID	Gene	Function	Catalytic activity	Subcellular location	Amino acid length
P06005	psbD	ATP formation	$2 \text{ H}_2\text{O} + 2 \text{ plastoquinone} + 4 \text{ light} = \text{O}_2 + 2 \text{ plastoquinol}$	Transmembrane 41-61 125-141 153-166 208-228 279-295	353