

NdhV subunit regulates the activity of type-1 NAD(P)H dehydrogenase under high light conditions in cyanobacterium *Synechocystis* sp. PCC 6803

Xin Chen, Zhihui He, Min Xu, Lianwei Peng, Hualing Mi

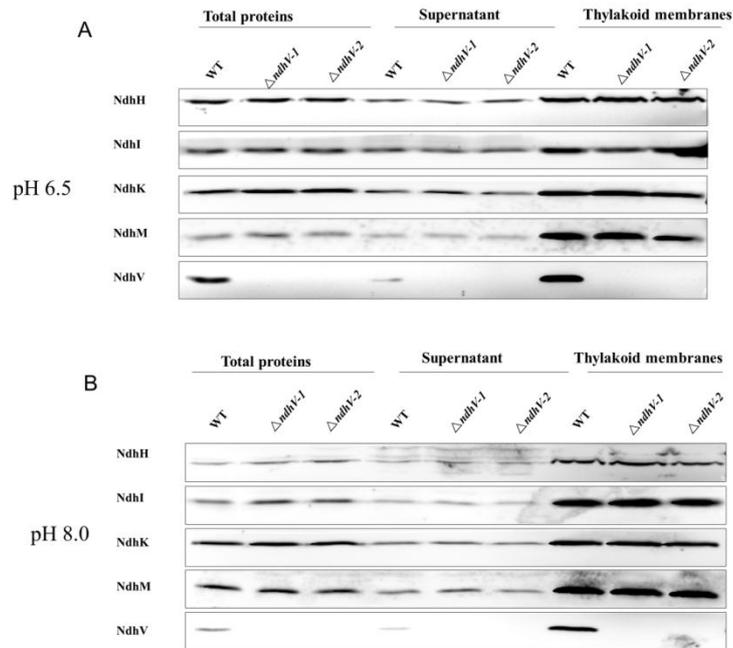


Figure 1S. Analysis of accumulation of Ndh subunits in WT and $\Delta ndhV$ strains. (A) Immunodetection of Ndh subunits in total proteins, supernatant and thylakoid membranes of WT and $\Delta ndhV$ mutants in pH 6.5. Each sample was obtained from the cells cultured in pH 6.5. Immunoblotting was performed using antibodies against Ndh subunits (NdhH, NdhI, NdhK, NdhM and NdhV). Each lane was loaded with 30 μ g proteins. (B) Immunodetection of Ndh subunits in total proteins, supernatant and thylakoid membranes of WT and $\Delta ndhV$ mutants pH 8.0. Each sample was obtained from the cells cultured in pH 8.0. Immunoblotting was performed using antibodies against Ndh subunits (NdhH, NdhI, NdhK, NdhM and NdhV). Each lane was loaded with 30 μ g proteins.

Supplemental Table 1

Primers List and Sequence

Primers used to construct the pMD-19T- Δ *ndhV* vector

Name	Sequence (5'-3')	Description
<i>ndhV</i> -up-F	GAGCCTGAGCCAATTGAGCCG	Amplification of upstream region
<i>ndhV</i> -up-R	ACAACGTGGCTTTCCCACTGCGGGGGTTAGCTT	
<i>ndhV</i> -mid-F	CCGCAGTGGGAAAGCCACGTTGTGTCTCA	Amplification of kanamycin resistance gene
<i>ndhV</i> -mid-R	GGGCTTCTCTTCGGGCGCTGAGGTCTGCCTCG	
<i>ndhV</i> -Dn-F	CTCAGCGCCGAAGAGAAGCCCTCACCGA	Amplification of downstream region
<i>ndhV</i> -Dn-R	TAGGTTTGATGGTGCTGCG	

Primers used to construct vectors to express protein to raise NdhV antibody.

Name	Sequence (5'-3')	Description
<i>ndhV</i> -F-KpnI	CGGGGTACCGGTGGCGCTATCCCTTTTACG	NdhV antibody
<i>ndhV</i> -R-BamHI	GCCGGATCCGGGTTGCCCCCTAGCCATTTTTGA	