

**The photoprotective protein PsbS from green microalga *Lobosphaera incisa*: the amino acid sequence, 3D structure and probable pH-sensitive residues.**

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Supplementary Materials

**Table S1.** The CDS of the gene encoding PsbS (GenBank accession number OR604507).

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>L.incisa-PsbS, CDS
ATGCAGACAAGTCCGTTTACAACCAGCCGAGCAGCCTATCGGCCAAATCAAACGTGGCC
CAGAGACTGGCAGCCCCCTCTGCGACCGGCAGTCGTCCACACAGGATGCGCCTGGCGCCG
ACCGCTGCCCTGAAGAGCAAGGTCAAGTACGACCCAGCGCCAAGACAGTTGACAGCCCT
GTATCAGCTTTCACACGACGCCGTGAGGTTTTCTGTTGGGCAGAACCGCTATGGGTGGCTTC
CTGGCAGCGGTGATTGGCGAGCTATTGACCGGCAAGGGCCCCATCGGCCAGCTGAGCCGTG
GAGCTTGGTGTGGACCCCTGGCCTCATCAACATCTTCTTCTGGGTCTCGTCGCCGTCAAC
TTCGTGACTGCAGTGTTCCTCCCGCAGCCCTACCTTCAGCGAGTCCAACCAGCAGGACGTG
CGCAAGCGCCCGTCAGGCCCATCCAGAAGCCTCAGAAGACCAGCGCAGCAGACCGACCT
GACCGCTTCTTCGGCACATCTAGCCAGTTTGGCTTCACGAAGAAGAACGAGCTGTTTGTG
GGCCGCACTGCCATGATTGGCTTCGCCTCCGCCCTCATCGGCGAGAAGCTGACAGGCGGC
AAGGGCCCCCTTGGGCCAGCTCGGCGTGCCGCTCGGTTTGGAGCTCAACCCACCTACGGA
TGGGTGGCCTCGCAGTCTGGGTGGGCTTCTTCTAGTCGCTGCAATTGGCTACGGCAAC
TTTGGCCAGCAGGAGGTGATGAGGAGATCTACTAG
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**Table S2.** The sequence of contig containing these fragments of the gene encoding (GenBank accession number OR604506).

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> Li925_1
CTCCCCACAAGGTACAAAACGATCCTTCCCTTAGCATTCATACAAGTGTAATATGCATA
CTGACAATGAAGGGTCAGCTGTTTGTACCGGTACACACAATAGGTCTGTTGTGCTTTTACA
CTATTTTACCTTGTGAAGGTGATTAGCAGTTGGTTGTGCAAGTGTACAAGAAGCAATGGT
GTGGAGAAAAGTGCAAACTCTGGGTTGACCAGATGTGTGAGTATGTTTGTGCTGAGATATGCC
ATTCTGTTGGACCCGCTTTTACAGGTGCTTACAGTGTGACAACAGCAGACCACTCCTATA
GCACGGTAAGAGTGTGACTTCTTACAGACTACCATCTTCGTCACTCACCATCTCTCCA
CAAATACTACTTACTGGCAATGGACACATATGACTTCGAAGCTGCATATACACAGACTA
AACTTGACAGCAGCTTACTGACAACATCGTACATGACCGTACAAGTTGTTTCGACATCAG
TTCTCACTGTCACTGTATACTCAGCGTCTTATAATTCAAGCTGCCCTCATGGCCTCAT
GGCATCAACATTGAACCTTGCAGTGTTTAAATCGAGCTAGTAGATCTCCTCATCACCCCTC
CTGCTGGCCAAAGTTGCCGTAGCCAATTGCAGCGACTGCAGTGTACACGCACGACCCAAT
AAGCGACAGCAAGTTGCAAAATTGAATTCATGACGGAATCACTTCCGATTTCCGTATG
GAAATCACAGACACAACCAGGCAAAGAGAGATTGAGCGATGGGCTGCACCACCTCAAAG
CAAGCAAGCCATTACAGCTTTTCACTCTCACCAGGAAGGCCACCCAGACTGCGAGG
CCAACCCATCCGTAGGTGGGGTTGAGCTCCAAACCGAGCGGCACGCCGAGCTGGCCCAAG
GGGCCCTTGCCGCTGTGAGCTTCTCGCCGATGAGGGCGGAGGCCAAGCCAATCATGGCA
GTGCGGCCCAACAACAGCTCGTCTTCTTCTGTAAGCCAACTGGCTAGATGTGCCGAAG
AAGCGCTGCGACACAGACAGGGTTGAGTGAGAACCAGCAATGAGTATGTGATTATACTGAG
CAACGGCAGTCAAGCCCTTCAACAACAAGGACCAGCACAAGACAGACTAGTATGAAGTAG
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CACTAACCATCAGGGCACAGCTGGCTGTAGGGCACCTGCACCCTAGCCACTGTGGACACA
TCCACAACCTCGATTATGTTAGGGTTGTGCGTGACCGACCAAGTACTCACGTCAGGTCGGT
CTGCTGCGCTGGTCTTCTGAGGCTTCTGGATGGGGCCTGACGGGCGCTTGCGCACGTCCT
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AGGTTTCGTAGATGAACTGCACCAGCACTGAAAAAGATTTGAGGCAAATCGAAAGCTTATA
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GTAAGTAAGCAAGCCCGTAACGTCAGGGTGCACTTGCTGGTGTGGCAAGCAGGATCCCAA
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CTTCCCAACCCAGATCAAAACCCACGTCGCCAACGAACGACTCAAGTAAGCTATGGATAG
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TGAGTTCACGCCCTGTCCACTCCTATACAAGCGGGAAGGCCGATACAGCCACGTCTTGCT  
ACCTGCTTGGGCCCCGCTCGAAGTACGGCATGTACTGACCTTGCTCTTCAGGGCAGCGGTC  
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GCCACGTTTGATTTGGCCGATAGGCTGCTGCGGCTGGTTGTGAACGGACTTGTCTGCATA  
AGAGCCATCGTCTGCATTGCTCTAGTAGCCGTTTGATCTGTAGGTTATGTCAGTGCGTCG  
AGGATGGCAGTTGGTTGTATGTATGCGTTGAGTATGTTTCAGCTGGTTTGTCTGAAGGCTG  
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CGAACTGGTTCAGCCTCTCCCAAGTACTGGGACAGTCGGTTGATGTCAACATCGCATGGG  
TCTGTGCGCGATCAGGACTGCATGGCACCTGAAGGCCCTGTTTCTGGCATGCCAAGTGG  
GGCACGGGAACCAACATGCCACAGTGTATGCTTGTGGGCAGCTGGTTCGTGGTGCGCCTGG  
CCTGTTGATCCTGGCAGTTTGACCTGTGCGCCCCTAACAGCATGCAACGGCTGAGGGCGA  
AGGGCGAACGATCCTCATTAGCCCTCAAGCACATGCTGTACTAAGGACTGTACGGACCTT  
AAAGGACTGGTACGTCCCTTGCAGCATGTGTGCGATCGCGTGTGATGCATGGGAAGCACGC  
TTGTGATGGTGGTGGGGCGGCAGCCGGCATAACCATCCGCAAGCAAGCATATGAAGTCTAT  
CTTCTTAGTTCTTATAGGTTACAGCTAGAGTACTGACACACATAACAACGTGTCACTAGCT  
GTTTGTGTTCTGCTGGCATGCTTGCTTCGCATGGAACCCGAACGGCCCAACCCTTTTATT  
GCGAGAATGCGAGCACTGCTGGGTCCAAACACATCTATAAACTTGCTGTCAATTTTACAC  
ACAGAAATGGAGCTAAGTCTGAACTTTTGGAGCACGACAAACCACAACCAAAACCTTGACA  
TTCAATGCTCAATACTAGTCAATGCCAGCTGACAGGGCTCGGCAGCGCGAACTCATACAT  
TTATTTGCCGTATACAGCCTACTTGTCATATCACTGTCAGTTAACGACGGCTGTGCACTC  
TTTCAAGGACAACAAAGGCACCTTTGCCACTTGCCAGAAAGTGTACACAGCCAACCGCGAT  
GGCGCTAGCTGCAAATCTGCTGCCCCGATGCTTGCCGATCATCCGGTGGTCATGCGATGTC  
AGGGTGGAGCAAGCAAGTAGCACTGGGCTACAT

