

References for Products 2551-2558

1. Zhao KH, Su P, Li J, Tu JM, Zhou M, Bubenzer C, Scheer H. (2006) Chromophore attachment to phycobiliprotein beta-subunits: phycocyanobilin:cysteine-beta84 phycobiliprotein lyase activity of CpeS-like protein from *Anabaena* Sp. PCC7120. *J Biol Chem*, 281, 8573.
2. Petrasek Z, Schmitt FJ, Theiss C, Huyer J, Chen M, Larkum A, Eichler HJ, Kemnitz K, Eckert HJ. (2005) Excitation energy transfer from phycobiliprotein to chlorophyll d in intact cells of *Acaryochloris marina* studied by time- and wavelength-resolved fluorescence spectroscopy. *Photochem Photobiol Sci*, 4, 1016.
3. Loos D, Cotlet M, De Schryver F, Habuchi S, Hofkens J. (2004) Single-molecule spectroscopy selectively probes donor and acceptor chromophores in the phycobiliprotein allophycocyanin. *Biophys J*, 87, 2598.
4. Prasanna R, Prasanna BM, Mohammadi SA, Singh PK. (2003) Evaluation of *Tolypothrix* germplasm for phycobiliprotein content. *Folia Microbiol (Praha)*, 48, 59.
5. Prasanna R, Dhar DW, Dominic TK, Tiwari ON, Singh PK. (2003) Isolation and characterisation of phycobiliprotein rich mutant of cyanobacterium *Synechocystis* sp. *Acta Biol Hung*, 54, 113.
6. Wu P. (2000) [Phycobiliprotein and fluorescence immunological assay]. *Sheng Li Ke Xue Jin Zhan*, 31, 82.
7. Noubir S, Luque I, Ochoa de Alda JA, Perewoska I, Tandeau de Marsac N, Cobley JG, Houmard J. (2002) Co-ordinated expression of phycobiliprotein operons in the chromatically adapting cyanobacterium *Calothrix* PCC 7601: a role for RcaD and RcaG. *Mol Microbiol*, 43, 749.
8. Ting CS, Rocap G, King J, Chisholm SW. (2001) Phycobiliprotein genes of the marine photosynthetic prokaryote *Prochlorococcus*: evidence for rapid evolution of genetic heterogeneity. *Microbiology*, 147, 3171.
9. Triantafilou K, Triantafilou M, Wilson KM. (2000) Phycobiliprotein-Fab conjugates as probes for single particle fluorescence imaging. *Cytometry*, 41, 226.
10. Zhao KH, Deng MG, Zheng M, Zhou M, Parbel A, Storf M, Meyer M, Strohmam B, Scheer H. (2000) Novel activity of a phycobiliprotein lyase: both the attachment of phycocyanobilin and the isomerization to phycoviolobilin are catalyzed by the proteins PecE and PecF encoded by the phycoerythrocyanin operon. *FEBS Lett*, 469, 9.
11. Siiman O, Wilkinson J, Burshteyn A, Roth P, Ledis S. (1999) Fluorescent neoglycoproteins: antibody-aminodextran-phycobiliprotein conjugates. *Bioconjug Chem*, 10, 1090.
12. Sauer J, Gorl M, Forchhammer K. (1999) Nitrogen starvation in *synechococcus* PCC 7942: involvement of glutamine synthetase and NtcA in phycobiliprotein degradation and survival. *Arch Microbiol*, 172, 247.
13. Ajlani G, Vernet C. (1998) Construction and characterization of a phycobiliprotein-less mutant of *Synechocystis* sp. PCC 6803. *Plant Mol Biol*, 37, 577.
14. Schluchter WM, Glazer AN. (1997) Characterization of cyanobacterial biliverdin reductase. Conversion of biliverdin to bilirubin is important for normal phycobiliprotein biosynthesis. *J Biol Chem*, 272, 13562.
15. Lichtle C, Garnier F, Bernard C, Zabulon G, Spilar A, Thomas JC, Etienne AL. (1996) Differential transcription of phycobiliprotein components in *Rhodella violacea*. Light and nitrogen effects on the 33-kilodalton phycoerythrin rod linker polypeptide, phycocyanin, and phycoerythrin transcripts. *Plant Physiol*, 112, 1045.
16. Liotenberg S, Campbell D, Rippka R, Houmard J, de Marsac NT. (1996) Effect of the nitrogen source on phycobiliprotein synthesis and cell reserves in a chromatically adapting filamentous cyanobacterium. *Microbiology*, 142 (Pt 3), 611.
17. Ducret A, Sidler W, Frank G, Zuber H. (1994) The complete amino acid sequence of R-phycocyanin-I alpha and beta subunits from the red alga *Porphyridium cruentum*.

- Structural and phylogenetic relationships of the phycocyanins within the phycobiliprotein families. *Eur J Biochem*, 221, 563.
18. Terry MJ, Maines MD, Lagarias JC. (1993) Inactivation of phytochrome- and phycobiliprotein-chromophore precursors by rat liver biliverdin reductase. *J Biol Chem*, 268, 26099.
 19. Wilbanks SM, Glazer AN. (1993) Rod structure of a phycoerythrin II-containing phycobilisome. I. Organization and sequence of the gene cluster encoding the major phycobiliprotein rod components in the genome of marine *Synechococcus* sp. WH8020. *J Biol Chem*, 268, 1226.
 20. Apt KE, Grossman AR. (1993) Characterization and transcript analysis of the major phycobiliprotein subunit genes from *Aglaothamnion neglectum* (Rhodophyta). *Plant Mol Biol*, 21, 27.
 21. Valentin K, Maid U, Emich A, Zetsche K. (1992) Organization and expression of a phycobiliprotein gene cluster from the unicellular red alga *Cyanidium caldarium*. *Plant Mol Biol*, 20, 267.
 22. Glauser M, Stirewalt VL, Bryant DA, Sidler W, Zuber H. (1992) Structure of the genes encoding the rod-core linker polypeptides of *Mastigocladus laminosus* phycobilisomes and functional aspects of the phycobiliprotein/linker-polypeptide interactions. *Eur J Biochem*, 205, 927.
 23. Swanson RV, Glazer AN. (1990) Phycobiliprotein methylation. Effect of the gamma-N-methylasparagine residue on energy transfer in phycocyanin and the phycobilisome. *J Mol Biol*, 214, 787.
 24. Swanson RV, Glazer AN. (1990) Separation of phycobiliprotein subunits by reverse-phase high-pressure liquid chromatography. *Anal Biochem*, 188, 295.
 25. Lin S, Offner GD, Troxler RF. (1990) Studies on *Cyanidium caldarium* Phycobiliprotein Pigment Mutants. *Plant Physiol*, 93, 772.
 26. Raps S. (1990) Differentiation between Phycobiliprotein and Colorless Linker Polypeptides by Fluorescence in the Presence of ZnSO₄. *Plant Physiol*, 92, 358.
 27. Glazer AN, Stryer L. (1990) Phycobiliprotein-avidin and phycobiliprotein-biotin conjugates. *Methods Enzymol*, 184, 188.
 28. Troxler RF, Lin S, Offner GD. (1989) Heme regulates expression of phycobiliprotein photogenes in the unicellular rhodophyte, *Cyanidium caldarium*. *J Biol Chem*, 264, 20596.
 29. Oelmüller R, Grossman AR, Briggs WR. (1989) Role of Protein Synthesis in Regulation of Phycobiliprotein mRNA Abundance by Light Quality in *Fremyella diplosiphon*. *Plant Physiol*, 90, 1486.
 30. Fuglistaller P, Mimuro M, Suter F, Zuber H. (1987) Allophycocyanin complexes of the phycobilisome from *Mastigocladus laminosus*. Influence of the linker polypeptide L8.9C on the spectral properties of the phycobiliprotein subunits. *Biol Chem Hoppe Seyler*, 368, 353.
 31. White JC, Stryer L. (1987) Photostability studies of phycobiliprotein fluorescent labels. *Anal Biochem*, 161, 442.
 32. Rumbeli R, Wirth M, Suter F, Zuber H. (1987) The phycobiliprotein beta 16.2 of the allophycocyanin core from the cyanobacterium *Mastigocladus laminosus*. Characterization and complete amino-acid sequence. *Biol Chem Hoppe Seyler*, 368, 1.
 33. Fuglistaller P, Suter F, Zuber H. (1986) Linker polypeptides of the phycobilisome from the cyanobacterium *Mastigocladus laminosus*. I. Isolation and characterization of phycobiliprotein-linker-polypeptide complexes. *Biol Chem Hoppe Seyler*, 367, 601.
 34. Klotz AV, Glazer AN, Bishop JE, Nagy JO, Rapoport H. (1986) Phycobiliprotein-bilin linkage diversity. II. Structural studies on A- and D-ring-linked phycoerythrobilins. *J Biol Chem*, 261, 6797.
 35. Bishop JE, Lagarias JC, Nagy JO, Schoenleber RW, Rapoport H, Klotz AV, Glazer AN. (1986) Phycobiliprotein-bilin linkage diversity. I. Structural studies on A- and D-ring-linked phycocyanobilins. *J Biol Chem*, 261, 6790.
 36. Kronick MN, Grossman PD. (1983) Immunoassay techniques with fluorescent phycobiliprotein conjugates. *Clin Chem*, 29, 1582.

37. Glazer AN, Stryer L. (1983) Fluorescent tandem phycobiliprotein conjugates. Emission wavelength shifting by energy transfer. *Biophys J*, 43, 383.
38. Belford HS, Offner GD, Troxler RF. (1983) Phycobiliprotein synthesis in the unicellular rhodophyte, *Cyanidium caldarium*. Cell-free translation of the mRNAs for the alpha and beta subunit polypeptides of phycocyanin. *J Biol Chem*, 258, 4503.
39. Oi VT, Glazer AN, Stryer L. (1982) Fluorescent phycobiliprotein conjugates for analyses of cells and molecules. *J Cell Biol*, 93, 981.
40. Kursar TA, Swift H, Alberte RS. (1981) Morphology of a novel cyanobacterium and characterization of light-harvesting complexes from it: Implications for phycobiliprotein evolution. *Proc Natl Acad Sci U S A*, 78, 6888.
41. Rijgersberg CP, Amesz J. (1980) Fluorescence and energy transfer in phycobiliprotein-containing algae at low temperature. *Biochim Biophys Acta*, 593, 261.
42. Wood NB, Haselkorn R. (1980) Control of phycobiliprotein proteolysis and heterocyst differentiation in *Anabaena*. *J Bacteriol*, 141, 1375.
43. Cosner JC, Troxler RF. (1978) Phycobiliprotein synthesis in protoplasts of the unicellular cyanophyte, *Anacystis nidulans*. *Biochim Biophys Acta*, 519, 474.
44. Haury JF, Bogorad L. (1977) Action Spectra for Phycobiliprotein Synthesis in a Chromatically Adapting Cyanophyte, *Fremyella diplosiphon*. *Plant Physiol*, 60, 835.
45. Abad-Zapatero C, Fox JL, Hackert ML. (1977) The quaternary structure of a unique phycobiliprotein: B-phycoerythrin from *Porphyridium cruentum*. *Biochem Biophys Res Commun*, 78, 266.
46. Glazer AN, Bryant DA. (1975) Allophycocyanin B (lambda_{max} 671, 618 nm): a new cyanobacterial phycobiliprotein. *Arch Microbiol*, 104, 15.
47. Gantt E, Conti SF. (1966) Phycobiliprotein localization in algae. *Brookhaven Symp Biol*, 19, 393.