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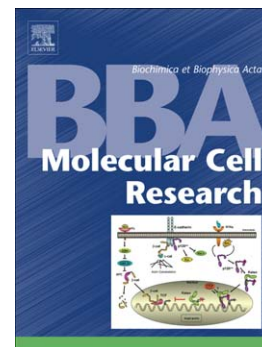
Small monomeric and highly stable near-infrared fluorescent markers derived from the thermophilic phycobiliprotein, ApcF2

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**Small monomeric and highly stable near-infrared fluorescent markers derived
from the thermophilic phycobiliprotein, ApcF2**

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Key words: Biliprotein, Allophycocyanin, bilin, biliverdin, fluorescence, biomarker

Abbreviations: APC, allophycocyanin; ApcF, β 18-subunit of phycobilisome core;
BDFP, NIR emitting FP derived from far-red induced ApcF; BPhy,
bacteriophytochrome; BV, biliverdin; FP, fluorescent protein; HO, heme oxygenase;
IFP2.0, phytochrome-derived FP; iRFP713, phytochrome derived FP; KPB,
potassium phosphate buffer; NIR, near-infrared; smURFP; FP derived from
allophycocyanin subunit ApcA.

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