

Title (en)

USE OF FMN-BINDING FLUORESCENCE PROTEINS (FBFP) AS NEW TYPES OF SECRETION MARKERS

Title (de)

VERWENDUNG VON FMN-BINDENDEN FLUORESCENZPROTEINEN (FBFP) ALS NEUARTIGE SEKRETIONSMARKER

Title (fr)

UTILISATION DE PROTÉINES FLUORESCENTES LIANT LE FMN (FBFP) COMME NOUVEAU MARQUEUR DE SÉCRÉTION

Publication

**EP 2739643 A1 20140611 (DE)**

Application

**EP 12740173 A 20120727**

Priority

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- EP 2012064776 W 20120727

Abstract (en)

[origin: WO2013020831A1] To investigate protein-protein interactions, protein foldings and protein localization and also in the secretion of proteins, in vivo reporter proteins are used in biotechnology and in basic research. In order to be able to utilize fluorescence reporters as markers for secretion processes, FMN-binding fluorescence proteins (FbFP) have been developed by us for the first time. The new fluorescence markers can be expressed like GFP in various bacteria. The binding of the chromophore FMN produces a cyan-green fluorescent protein which can be detected in vivo using all customary spectroscopic and microscopic methods. In contrast to GFP, this protein can also surprisingly be secreted via the Sec route and be converted to the fluorescence-active state in the periplasma.

IPC 8 full level

**C07K 14/195** (2006.01)

CPC (source: EP US)

**C07K 14/195** (2013.01 - EP US); **C07K 14/245** (2013.01 - US); **C12Q 1/68** (2013.01 - US); **G01N 33/52** (2013.01 - US)

Citation (search report)

See references of WO 2013020831A1

Designated contracting state (EPC)

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