

Title (en)
MUTEINS OF BILIN-BINDING PROTEIN

Title (de)
MUTEINE DES BILIN-BINDUNGSPROTEINS

Title (fr)
MUTEINES DE LA PROTEINE LIANT LA BILINE

Publication
EP 1181368 A1 20020227 (DE)

Application
EP 00945617 A 20000608

Priority
• DE 0001873 W 20000608
• DE 19926068 A 19990608

Abstract (en)
[origin: WO0075308A1] The invention relates to muteins of bilin-binding protein with a binding ability to digoxigenin and the fusion proteins of said muteins, a method for preparing said muteins and fusion proteins thereof and to their utilization for detecting or binding digoxigenin-labeled biomolecules. The invention especially relates to a polypeptide selected from the muteins of the bilin-binding protein, which is characterized in that (a) it can bind digoxigenin or digoxigenin conjugates; (b) it does not bind ouabain, testosterone and 4-aminofluorescein (c) at least one of the sequence positions 28, 31, 34, 35, 36, 37, 58, 60, 69, 88, 90, 95, 97, 114, 116, 125 and 127 of the bilin-binding protein has an aminoacid substitution. Due to their simple molecular structure, the inventive muteins provide advantages for production and utilization in comparison with antibodies against the digoxigenin group.

IPC 1-7
C12N 15/12; **C07K 14/435**; **C12N 15/62**

IPC 8 full level
C07K 14/435 (2006.01); **C12N 15/12** (2006.01)

CPC (source: EP US)
C07K 14/43563 (2013.01 - EP US)

Citation (search report)
See references of WO 0075308A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0075308 A1 20001214; AU 5963900 A 20001228; CA 2376638 A1 20001214; DE 19926068 C1 20010111; EP 1181368 A1 20020227; US 7001882 B1 20060221

DOCDB simple family (application)
DE 0001873 W 20000608; AU 5963900 A 20000608; CA 2376638 A 20000608; DE 19926068 A 19990608; EP 00945617 A 20000608; US 98086202 A 20020227