

Title (en)

DNA BINDING COMPOUND-MEDIATED MOLECULAR SWITCH SYSTEM

Title (de)

DURCH DNS-BINDENDE VERBINDUNGEN REGULIERTER MOLEKULARER SCHALTER

Title (fr)

SYTEME DE SEQUENCE ACTIVATRICE A MEDIATION ASSUREE PAR COMPOSE DE LIAISON A L'ADN

Publication

EP 1165808 A2 20020102 (EN)

Application

EP 00913742 A 20000303

Priority

- US 0005728 W 20000303
- US 12251399 P 19990303
- US 15460599 P 19990917

Abstract (en)

[origin: WO0052179A2] The present invention provides molecular switch system methods and compositions for use in regulatable gene expression. The system includes a nucleic acid construct which has a DNA response sequence for a transcriptional regulatory protein operably linked to a promoter, a compound binding sequence in the vicinity of the DNA response sequence, a transgene under the control of the promoter; and a DNA binding compound. In some cases, the molecular switch system further includes a nucleic acid sequence encoding a transcriptional regulatory protein operably linked to a second promoter. The invention further provides a method for screening compounds for the ability to function in the molecular switch system and thereby regulate gene expression.

IPC 1-7

C12N 15/63; **C12N 15/82**; **C12Q 1/68**; **C12N 5/10**

IPC 8 full level

C07K 14/47 (2006.01); **C12N 15/85** (2006.01)

CPC (source: EP)

C07K 14/4738 (2013.01); **C12N 15/85** (2013.01); **C07K 2319/71** (2013.01); **C12N 2800/40** (2013.01); **C12N 2830/00** (2013.01); **C12N 2830/15** (2013.01); **C12N 2830/55** (2013.01); **C12N 2830/60** (2013.01); **C12N 2830/75** (2013.01); **C12N 2830/85** (2013.01)

Citation (search report)

See references of WO 0052179A2

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 0052179 A2 20000908; **WO 0052179 A3 20001221**; AU 3513000 A 20000921; CA 2367037 A1 20000908; EP 1165808 A2 20020102

DOCDB simple family (application)

US 0005728 W 20000303; AU 3513000 A 20000303; CA 2367037 A 20000303; EP 00913742 A 20000303