

Title (en)  
COMPOSITIONS AND METHODS FOR PRODUCING HIGH-LEVEL SEED-SPECIFIC GENE EXPRESSION IN CORN

Title (de)  
ZUSAMMENSETZUNGEN UND VERFAHREN FÜR DIE HERSTELLUNG EINER STARKEN, SAMENSPEZIFISCHEN GENEXPRESSION IN MAIS.

Title (fr)  
COMPOSITIONS ET PROCEDES PERMETTANT DE PRODUIRE UNE EXPRESSION GENIQUE DE NIVEAU ELEVE PROPRE A UNE GRAINE DANS LE MAIS

Publication  
**EP 1108009 A1 20010620 (EN)**

Application  
**EP 99945499 A 19990825**

Priority

- US 9920308 W 19990825
- US 9803498 P 19980827
- US 13783699 P 19990607

Abstract (en)  
[origin: WO0012681A1] The present invention provides novel DNA constructs encoding high methionine zein proteins, the expression of which is not negatively regulated by the dzrl regulatory protein. The constructs of the invention comprise a delta -zein coding region operably linked to a promoter and a 3' UTR which has been modified so as to be devoid of any binding sites for the dzrl regulatory protein. Preferably, the entire 3' UTR is replaced by a heterologous sequence that does not contain any dzrl binding sites. Transgenic corn plants comprising the DNA constructs of the invention are also provided. These plants consistently produce high methionine corn seeds.

IPC 1-7  
**C12N 5/04**; **C12N 15/29**; **C12N 15/82**; **C07K 14/425**; **A01H 5/10**

IPC 8 full level  
**C07K 14/425** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP)  
**C07K 14/425** (2013.01); **C12N 15/8234** (2013.01); **C12N 15/8253** (2013.01)

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 0012681 A1 20000309**; AU 5808999 A 20000321; EP 1108009 A1 20010620; EP 1108009 A4 20040714

DOCDB simple family (application)  
**US 9920308 W 19990825**; AU 5808999 A 19990825; EP 99945499 A 19990825