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(71) Applicants (*for all designated States except US*): **ALTERNATIVE GENE EXPRESSION S.L.** [ES/ES]; INIA, Autovia A6 Km. 7, E-28040 Madrid (ES). **OBSCHESTVO S OGRANICHENNOI OTVETSTVENNOSTYU "LAISENTEK"** [RU/RU]; ul. Myasnitskaya, 13-5, Moscow, 101000 (RU).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **GÓMEZ SEBASTIÁN, Silvia** [ES/ES]; INIA, Autovia A6 Km. 7, E-28040 Madrid (ES). **LÓPEZ VIDAL, Javier** [ES/ES]; INIA, Autovia A6 Km. 7, E-28040 Madrid (ES). **MARTÍNEZ ESCRIBANO, José Angel** [ES/ES]; INIA, Autovia A6 Km. 7, E-28040 Madrid (ES).

(74) Agent: **OBSHESTVO S OGRANICHENNOI OTVETSTVENNOSTJU "SOJUZPATENT"**; ul. Iliinka, 5/2, Moscow, 109012 (RU).

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(54) Title: RECOMBINANT DNA ELEMENTS FOR THE EXPRESSION OF RECOMBINANT PROTEINS IN INSECTS

(57) Abstract: Reagents and methods are provided that allow for an improved expression of a recombinant protein in an insect. More specifically, the introduction of recombinant DNA elements into an insect larva allows for the increased expression of a recombinant protein, an improvement of the correct folding of said protein and an increase in the survival rate after infection of the insect. These recombinant DNA elements can be introduced, for example, into insect larvae via a recombinant baculovirus, which has incorporated said elements. The recombinant DNA elements include nucleic acids encoding transcriptional regulators, such as IE-0 and IE-1, transcriptional enhancer elements, such as the homologous region (hr) and promoters.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

A01K 67/033(2006.01)

C12N 15/33 (2006.01)

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C07K 14/01 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A01K 67/033, C12N 15/33, C12P 21/00, C07K 14/01

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubMed, DEPATISnet, K-PION, Pat FT, Esp@cenet, SNAPT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 1995017515 A1 (UNIVERSITY TECHNOLOGIES INTERNATIONAL INC.), 29.06.1995, claims	1-12
A	LU L. et al. Reduced expression of the immediate-early protein IE0 enables efficient replication of Autographa californica multiple nucleopolyhedrovirus in poorly permissive Spodoptera littoralis cells, J Virol., 2003, v.77, no.1, pp. 535-545.	1-12
A	US 20080096813 A1 (REGENTS OF THE UNIVERSITY OF CALIFORNIA et al), 24.04.2008, claims	1-12
A	ISHIYAMA S. ET AL., High-level expression and improved folding of proteins by using the vp39 late promoter enhanced with homologous DNA regions, Biotechnol Lett., 2010, v.32, no.11, pp. 1637-1647	1-12
A	RU 2158505 C2 (SOVKHOZ "TEPLICHNY"), 10.11.2000, claims	1-12



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

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Name and mailing address of the ISA/ FIPS
Russia, 123995, Moscow, G-59, GSP-5,
Berezhkovskaya nab., 30-1

Facsimile No. +7 (499) 243-33-37

Authorized officer

M. Hudyuev

Telephone No. 495 531 65 15