

Title (en)

TRANSGENIC CHICKENS WITH AN INACTIVATED ENDOGENOUS GENE LOCUS

Title (de)

TRANSGENE HÜHNER MIT INAKTIVIERTEM ENDOGENEM GENLOCUS

Title (fr)

POULETS TRANSGENIQUES PORTEURS D'UN LOCUS DE GENES ENDOGENES INACTIVES

Publication

EP 2187732 A1 20100526 (EN)

Application

EP 08797925 A 20080814

Priority

- US 2008073214 W 20080814
- US 96489107 P 20070814

Abstract (en)

[origin: WO2009023800A1] The present invention is transgenic chickens obtained from long-term cultures of avian PGCs and techniques to produce and transgenic birds derived from prolonged PGC cultures. In some embodiments, these PGCs can be transfected with genetic constructs to modify the DNA of the PGC, specifically to introduce a transgene encoding an exogenous protein. When combined with a host avian embryo by known procedures, those modified PGCs are transmitted through the germline to yield transgenic offspring. This invention includes compositions comprising long-term cultures of PGCs and offspring derived from them that are genetically modified. The genetic modifications introduced into PGCs to achieve the gene inactivation may also include, but are not restricted to, random integrations of transgenes into the genome, transgenes inserted into the promoter region of genes, transgenes inserted into repetitive elements in the genome, site specific changes to the genome that are introduced using integrase, site specific changes to the genome introduced by homologous recombination, and conditional mutations introduced into the genome by excising DNA that is flanked by lox sites or other sequences that are substrates for site specific recombination.

IPC 8 full level

A01K 67/027 (2006.01)

CPC (source: EP)

A01K 67/0276 (2013.01); **C07K 14/465** (2013.01); **C07K 16/00** (2013.01); **C12N 15/8509** (2013.01); **C12N 15/902** (2013.01); **A01K 2217/052** (2013.01); **A01K 2217/075** (2013.01); **A01K 2227/30** (2013.01); **A01K 2267/01** (2013.01); **A01K 2267/0393** (2013.01); **C12N 2800/30** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2009023800 A1 20090219; AU 2008286791 A1 20090219; CA 2706224 A1 20090219; CN 101868144 A 20101020; EP 2187732 A1 20100526; EP 2187732 A4 20121107; JP 2010536346 A 20101202; JP 2014239702 A 20141225; JP 2016129519 A 20160721; JP 5760159 B2 20150805; JP 6004290 B2 20161005; KR 101563017 B1 20151023; KR 20100088125 A 20100806

DOCDB simple family (application)

US 2008073214 W 20080814; AU 2008286791 A 20080814; CA 2706224 A 20080814; CN 200880111586 A 20080814; EP 08797925 A 20080814; JP 2010521188 A 20080814; JP 2014197988 A 20140929; JP 2016080837 A 20160414; KR 20107005724 A 20080814