

Title (en)

APPARATUS AND SYSTEM HAVING DRY GENE SILENCING COMPOSITIONS

Title (de)

VORRICHTUNG UND SYSTEM MIT TROCKENEN KONTROLLGEN-VERSTÜMMUNGSSUSAMMENSETZUNGEN

Title (fr)

APPAREIL ET SYSTÈME COMPRENANT DES COMPOSITIONS SÈCHES D'EXTINCTION GÉNIQUE

Publication

**EP 1814994 A4 20100714 (EN)**

Application

**EP 05857003 A 20051121**

Priority

- US 2005042404 W 20051121
- US 63032004 P 20041122
- US 67816505 P 20050504
- US 28348105 A 20051118
- US 28348205 A 20051118
- US 28348305 A 20051118
- US 28348405 A 20051118

Abstract (en)

[origin: CA2587786C] A reverse transfection apparatus can be used for introducing siRNA into a cell to effect gene silencing. Such an apparatus can include a well plate having a well configured for transfecting cells. The well can include a substantially dry gene silencing composition that has at least a first siRNA which silences a first target gene. The gene silencing composition can be configured such that the at least first siRNA is capable of being solubilized or suspended in an aqueous medium in an amount sufficient for transfecting cells in the well. Additionally, the at least first siRNA can include a modification or a conjugate. The reverse transfection apparatus can be provided as a kit or system that additionally includes cells, polynucleotide carriers, reverse transfection reagents, and the like.

IPC 8 full level

**C12N 15/63** (2006.01); **C07H 21/02** (2006.01); **C07H 21/04** (2006.01); **C12N 15/00** (2006.01); **C12N 15/85** (2006.01); **C12N 15/87** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP KR)

**C12M 1/00** (2013.01 - KR); **C12M 1/18** (2013.01 - KR); **C12M 1/26** (2013.01 - KR); **C12Q 1/6809** (2013.01 - EP); **G01N 33/502** (2013.01 - EP)

C-Set (source: EP)

**C12Q 1/6809** + **C12Q 2545/113** + **C12Q 2545/101** + **C12Q 2525/207**

Citation (search report)

- [Y] WO 2004090105 A2 20041021 - DHARMACON INC [US], et al
- [X] US 2004137064 A1 20040715 - LEWIS DAVID L [US], et al
- [AP] WO 2005097992 A2 20051020 - DHARMACON INC [US], et al
- [XYI] MINAKUCHI YOSHIKO ET AL.: "Atelocollagen-mediated synthetic small interfering RNA delivery for effective gene silencing in vitro and in vivo", NUCLEIC ACIDS RESEARCH, vol. 32, no. 13, 22 July 2004 (2004-07-22), pages E109.1 - E109.7, XP002513223, ISSN: 1362-4962
- [A] HONMA KIMI ET AL.: "Atelocollagen-based gene transfer in cells allows high-throughput screening of gene functions", BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 289, no. 5, 21 December 2001 (2001-12-21), pages 1075 - 1081, XP002957375, ISSN: 0006-291X
- [AP] HONMA K. ET AL.: "The role of atelocollagen-based cell transfection array in high-throughput screening of gene functions and in drug discovery", CURRENT DRUG DISCOVERY TECHNOLOGIES, vol. 1, no. 4, 1 December 2004 (2004-12-01), pages 287 - 294, XP008092990, ISSN: 1570-1638

Citation (examination)

AZA-BLANC P ET AL: "Identification of modulators of TRAIL-induced apoptosis via RNAi-based phenotypic screening", MOLECULAR CELL, CELL PRESS, CAMBRIDGE, MA, US, vol. 12, no. 3, 1 September 2003 (2003-09-01), pages 627 - 637, XP002350184, ISSN: 1097-2765, DOI: 10.1016/S1097-2765(03)00348-4

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