

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 February 2004 (12.02.2004)

PCT

(10) International Publication Number
WO 2004/013355 A1

(51) International Patent Classification⁷: C12Q 1/68, C12P
19/34, C12N 5/00, 15/00, 15/63, A01N 43/04, 63/00

(74) Agents: STEFFEY, Charles, E. et al.; Schwegman, Lund-
berg, Woessner & Kluth, P.O. Box 2938, Minneapolis, MN
55402 (US).

(21) International Application Number:

PCT/US2003/016886

(22) International Filing Date: 26 May 2003 (26.05.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

10/212,322	5 August 2002 (05.08.2002)	US
10/322,086	17 December 2002 (17.12.2002)	US
10/430,351	5 May 2003 (05.05.2003)	US

(63) Related by continuation (CON) or continuation-in-part
(CIP) to earlier application:

US	10/430,351 (CON)
Filed on	5 May 2003 (05.05.2003)

(71) Applicant (for all designated States except US): UNI-
VERSITY OF IOWA RESEARCH FOUNDATION
[US/US]; Oakdale Research Campus, 100 Oakdale Cam-
pus #214 TIC, Iowa city, IA 52242-5000 (US).

(71) Applicants and

(72) Inventors: DAVIDSON, Beverly, L. [US/US]; 3640 John-
son Way N.E., North Liberty, IA 52242 (US). XIA, Haibin
[CN/US]; 1264 Shannon Drive, Iowa City, IA 52246 (US).
MAO, Qinwen [CN/US]; 1264 Shannon Drive, Iowa City,
IA 52246 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.

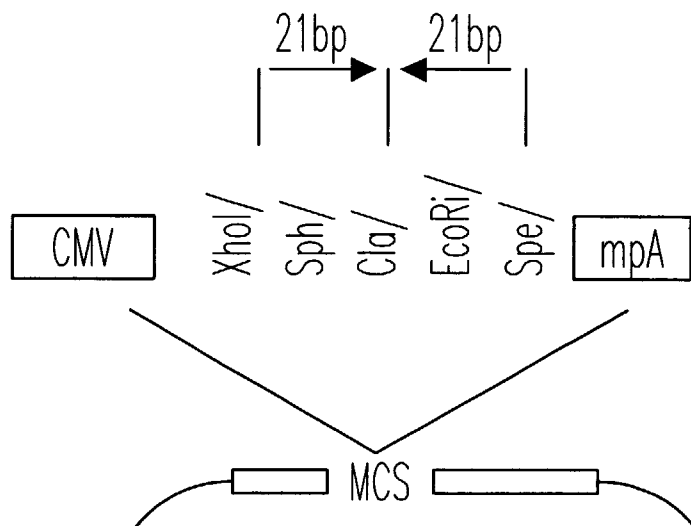
(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

[Continued on next page]

(54) Title: SIRNA-MEDIATED GENE SILENCING WITH VIRAL VECTORS



(57) Abstract: The present invention is
directed to viral vectors encoding small
interfering RNA molecules (siRNA) targeted
against a gene of interest, and methods of
using these viral vectors.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.