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(71) Applicant (for all designated States except US): **HEALTH RESEARCH INC.** [US/US]; Elm and Carlton Streets, Buffalo, NY 14263 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PRUITT, Steven, C.** [US/US]; 29 Thistle, Williamsville, NY 14221 (US). **MASLOV, Alexander, Y.** [—/US]; 371 Campus Drive, Snyder, New York 14226 (US). **BARONE, Tara, A.** [US/US]; Roswell Park Cancer Institute, Elm and Carlton Streets, Buffalo, NY 14263 (US). **PLUNKETT, Robert, J.** [US/US]; Roswell Park Cancer Institute, Elm and Carlton Streets, Buffalo, NY 14263 (US).

(74) Agents: **LOPINSKI, John, D.** et al.; Hodgson Russ LLP, One M & T Plaza, Suite 2000, Buffalo, NY 14203-2391 (US).

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(54) Title: A TRANSGENIC ANIMAL MODEL FOR CANCER AND STEM CELLS

(57) Abstract: The present invention provides methods and compositions for identifying stem cells and/or cancer cells in non-human animals. The compositions include vectors comprising elements suitable for integration into a licensing factor gene such that a cell harboring the chromosome into which the vector elements have integrated expresses a reporter transgene. The methods comprise the detection of stem and/or cancer cells by detecting the expression of the reporter transgene.



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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A01K 67/00

US CL : 435/325; 800/8

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)

U.S. : 435/325; 800/8

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
60/468,904Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST, Medline, PALM

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2002/0137699 A1 (MUELLER et al.) 26 September 2002 (26.09.2004), entire reference for types of vectors.	1-4, 7-13, 16-21, 24-32, 35-39, 41-47, 50-54, 57-59 ----- 1-59
X --- Y	SCHUSTER-GOSSLER ET AL. Gtl2lacZ, an insertional mutation on mouse chromosome 12 with parental origin-dependnet phenotype, Mammalina Genome (1996) Vol. 7, pages 20-24, entire reference for teaching on how to study insertional mutations with reporter constructs.	1-4, 7-13, 16-21, 24-32, 35-39, 41-47, 50-54, 57-59 ----- 1-59
X --- Y	BRANKO ET AL. Promoter function of the angiogenic inducer Cyr61 gene in transgenic mice, Endocrinology (2001), Vol. 142, No. 6, pages 2549-2557, entire reference for teaching on use of study of endogenous promoters.	1-4, 7-13, 16-21, 24-32, 35-39, 41-47, 50-54, 57-59 ----- 1-59

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Joseph T. Weitach

Telephone No. (571) 272-1600