

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT				
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE				
CONVEYING PARTY DATA					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>SLOAN-KETTERING INSTITUTE FOR CANCER RES</td> <td>07/12/2012</td> </tr> </tbody> </table>		Name	Execution Date	SLOAN-KETTERING INSTITUTE FOR CANCER RES	07/12/2012
Name	Execution Date				
SLOAN-KETTERING INSTITUTE FOR CANCER RES	07/12/2012				
RECEIVING PARTY DATA					
Name:	National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government				
Street Address:	NIH Division of Extramural Inventions and Technology Resources (DEITR)				
Internal Address:	6705 Rockledge Drive, Suite 310, MSC 7980				
City:	Bethesda				
State/Country:	MARYLAND				
Postal Code:	20892-7980				
PROPERTY NUMBERS Total: 1					
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Patent Number:</td> <td>7541179</td> </tr> </tbody> </table>		Property Type	Number	Patent Number:	7541179
Property Type	Number				
Patent Number:	7541179				
CORRESPONDENCE DATA					
Fax Number:	3014800272				
Email:	edison@nih.gov				
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>					
Correspondent Name:	Director, DEITR				
Address Line 1:	NIH, 6705 Rockledge Drive, Suite 310				
Address Line 2:	MSC 7980				
Address Line 4:	Bethesda, MARYLAND 20892-7980				
NAME OF SUBMITTER:	Director, DEITR, NIH				
Total Attachments: 1 source=7541179,LAB,07-31-2012#page1.tif					

SI 972-03

# License to the United States Government

Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison).

Invention Title: Vector encoding human globin gene and use thereof in treatment of hemoglobinopathies

Inventor(s): Michel WJ Sadelain, Chad May, Stefano Rivella, Joseph R. Bertino

U.S. Filing/Issue Date: 07/02/2009

Patent or Application Serial No.: 7,541,179

Grant/Contract Number(s): HL057612

Foreign Applications filed/intended in (countries): \_\_\_\_\_

The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14, FAR 52.227-11 or FAR 52.227-12 (if applicable) which are included among the terms of the above identified grant or contract award from the United State Government. This document is confirmatory of:

1. The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and
2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations that are applicable to the award.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 12<sup>th</sup> day of July, 2012.

By Eric Cottigata (Institutional Business Official) [Signature] (Signature)

Title Vice President, PTM

For SLOAN-KETTERING INSTITUTE FOR CANCER RES (Grantee/Contractor Organization)

At Office of Industrial Affairs 1275 York Avenue New York, NY 10065 US (Business Address)