504818333 03/14/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE

CONVEYING PARTY DATA

Name	Execution Date
ST. JUDE CHILDREN'S RESEARCH HOSPITAL	03/07/2018

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15136298

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Total Attachments: 1

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PATENT 504818333 REEL: 045584 FRAME: 0452

LICENSE TO THE UNITED STATES GOVERNMENT

Invention Title: Safety test for gene therapy vectors

Inventor(s): Brian Sorrentino

Sheng Zhou

U.S. Filing/Issue Date: April 22, 2016

Patent or Application Serial No.: 15/136,298

Grant/Contract Identification Number: HL053749

CA021765

Foreign Applications filed/intended N/A

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 States Government. This document is confirmatory of:

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

Signed this 7th day of March, 2018.

J. Scott Elmer Digitally signed by J. Scott Biner Discreas. Scott Biner, e-St. Jude Children's Research Hospital, our-office of Technology Likenjing, email-scott-demergisjude.org, c=US Date: 2018/83/01 1523-2446-0500

By:

J. Scott Elmer

RECORDED: 03/14/2018

Director, Office of Technology Licensing

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PATENT REEL: 045584 FRAME: 0453