PATENT ASSIGNMENT COVER SHEET

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CONVEYING PARTY DATA

Name	Execution Date
WASHINGTON UNIVERSITY	04/19/2018

RECEIVING PARTY DATA

Name:	National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15146621

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Total Attachments: 1

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RECORDED: 04/20/2018

Sign and submit the executed document to the appropriate funding agency (e.g. upload in lEdison). Invention Title: Compositions and Methods for the Construction for a Random Allelic Seriers Inventor(s): Gabriel Haller, Christina A. Gurnett, Matthew Bar Dobbs, David Alvarado U.S. Filing/Issue Date: 05/04/2016 Patent or Application Serial No.: 15/146,621 Grant/Contract Number(s): AR067715 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 States 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. day of 19 20 18 Signed this Nichole R. Mercier (Institutional Business Official) Title Managing Director - Office of Technology Management For WASHINGTON UNIVERSITY (Grantee/Contractor Organization) At Washington University 660 South Euclid Ave. St. Louis, MO 63110 (Business Address)

> PATENT REEL: 045994 FRAME: 0704