Accepted Manuscript

Somatic second hit mutation of *RASA1* in vascular endothelial cells in capillary malformation-arteriovenous malformation

Philip E. Lapinski, Abbas Doosti, Valerie Salato, Paula North, Patricia E. Burrows, Philip D. King

PII: \$1769-7212(17)30256-2

DOI: 10.1016/j.ejmg.2017.10.004

Reference: EJMG 3351

To appear in: European Journal of Medical Genetics

Received Date: 19 April 2017

Revised Date: 23 August 2017 Accepted Date: 7 October 2017

Please cite this article as: P.E. Lapinski, A. Doosti, V. Salato, P. North, P.E. Burrows, P.D. King, Somatic second hit mutation of *RASA1* in vascular endothelial cells in capillary malformation-arteriovenous malformation, *European Journal of Medical Genetics* (2017), doi: 10.1016/j.ejmg.2017.10.004.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Somatic Second Hit Mutation of *RASA1* in Vascular Endothelial Cells in Capillary Malformation-Arteriovenous Malformation

Philip E. Lapinski ^a, Abbas Doosti ^a, Valerie Salato ^b, Paula North ^b, Patricia E. Burrows ^c, and Philip D. King ^{a,*}

^a Department of Microbiology and Immunology

University of Michigan Medical School

Ann Arbor

Michigan 48103

USA

Department of ^bPathology and ^c Radiology

Medical College of Wisconsin

Children's Hospital of Wisconsin

Milwaukee

Wisconsin 53226

USA

^{*} Correspondence to: Philip D. King Ph.D., Department of Microbiology and Immunology, University of Michigan Medical School, 1150 West Medical Center Drive, Ann Arbor, Michigan 48103. Telephone: 1-734-615-9073, Fax: 1-734-764-3562. Email: kingp@umich.edu

Download English Version:

https://daneshyari.com/en/article/8644327

Download Persian Version:

https://daneshyari.com/article/8644327

<u>Daneshyari.com</u>