

University of Groningen

The molecular role of Serf2 in development and misfolded protein aggregation

Stroo, Esther

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version

Publisher's PDF, also known as Version of record

Publication date:
2018

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Stroo, E. (2018). The molecular role of Serf2 in development and misfolded protein aggregation [Groningen]: Rijksuniversiteit Groningen

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

Copyright by Esther Stroo 2018

ISBN (print): 978-94-034-0568-1

ISBN (electronic): 978-94-034-0567-4

Cover design: Michael Pelletier (<http://mikepelletier.net>)

Printing: IPSKAMP PRINTING, ENSCHEDE, The Netherlands



/ rijksuniversiteit
groningen



umcg



greiner bio-one



rijksuniversiteit
groningen

The molecular role of Serf2 in development and misfolded protein aggregation

Proefschrift

ter verkrijging van de graad van doctor aan de
Rijksuniversiteit Groningen
op gezag van de
rector magnificus prof. dr. E. Sterken
en volgens besluit van het College voor Promoties.

De openbare verdediging zal plaatsvinden op

maandag 7 mei 2018 om 16.15 uur

door

Esther Stroo

Geboren op 21 december 1987
te Zaanstad

Promotores

Prof. dr. ir. E.A.A. Nollen

Prof. dr. A. de Bruin

Beoordelingscommissie

Prof. dr. G.R. Mallucci

Prof. dr. D.S. Verbeek

Prof. dr. C.F. Calkhoven

Paranimfen

Wytse Hogewerf

Olga Mulder

TABLE OF CONTENTS

Chapter 1	Aim and outline of this thesis	9
Chapter 2	Cellular regulation of amyloid formation in aging and disease	13
Chapter 3	Full-body deletion of <i>Serf2</i> causes growth retardation, fetal atelectasis and neonatal death in mice	67
Chapter 4	Investigation into the Sox1-Cre mice as a model for brain specific gene deletion	91
Chapter 5	Serf2 alters amyloid conformation <i>in vitro</i> and in an Alzheimer's mouse model	105
Chapter 6	General discussion and future perspectives	137
Chapter 7	Summary	159
Chapter 8	Nederlandse samenvatting	165
Appendices	List of publications	171
	Dankwoord/Acknowledgements	175

