

University of Groningen

Mapping of Gene Expression Reveals CYP27A1 as a Susceptibility Gene for Sporadic ALS

Diekstra, Frank P.; Saris, Christiaan G. J.; van Rheenen, Wouter; Franke, Lude; Jansen, Ritsert C.; van Es, Michael A.; van Vught, Paul W. J.; Blauw, Hylke M.; Groen, Ewout J. N.; Horvath, Steve

Published in:
 PLoS ONE

DOI:
[10.1371/journal.pone.0035333](https://doi.org/10.1371/journal.pone.0035333)

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:
 2012

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

Citation for published version (APA):

Diekstra, F. P., Saris, C. G. J., van Rheenen, W., Franke, L., Jansen, R. C., van Es, M. A., van Vught, P. W. J., Blauw, H. M., Groen, E. J. N., Horvath, S., Estrada, K., Rivadeneira, F., Hofman, A., Uitterlinden, A. G., Robberecht, W., Andersen, P. M., Melki, J., Meininger, V., Hardiman, O., ... Brown Jr., R. H. (2012). Mapping of Gene Expression Reveals CYP27A1 as a Susceptibility Gene for Sporadic ALS. *PLoS ONE*, 7(4), Article e35333. <https://doi.org/10.1371/journal.pone.0035333>

Copyright

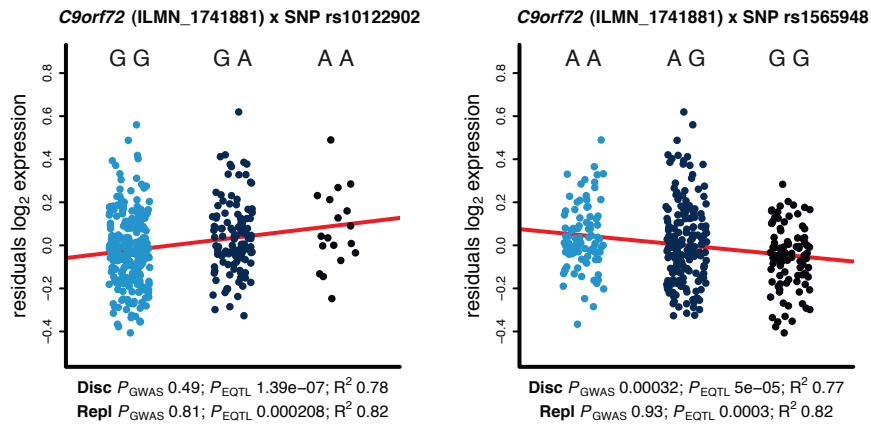
Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

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.



On the Y-axis, the residuals of \log_2 transformed expression levels for probe ILMN_1741881 mapping to *C9orf72* after regression of covariates in the replication data. On the X-axis SNP genotype bins, according to an additive model; on the left homozygotes for the major allele and homozygotes for the minor allele on the right. A regression line is plotted for each linear model. P values and R^2 (variance explained) for GWAS and eQTL associations in both discovery and replication cohorts are shown below each plot. Disc, Discovery; Repl, Replication; eQTL, expression quantitative trait locus; GWAS, genome-wide association study.