nature portfolio

Peer Review File

RNA-based translation activators for targeted gene upregulation

Editorial Note: This manuscript has been previously reviewed at another journal that is not operating a transparent peer review scheme. This document only contains reviewer comments and rebuttal letters for versions considered at Nature Communications.

REVIEWERS' COMMENTS

Reviewer #2 (Remarks to the Author):

I have reviewed this exact manuscript previously and do not have any additional comments. It is an interesting manuscript and I strongly feel that it merits publication.

I understand that Western blot quantification issues has been brough up by another reviewer. This approach is not necessarily a drawback, because ELISAs and dot blots may also have different background levels in different wells/slots, but as opposed to Westerns such backgrounds are not obvious and cannot be factored into result evaluation.

Furthermore, ELISAs and dot blots do not necessarily indicate which particular band/protein is being quantified, so the capture/detection antibody cross-reactivity remains hidden.

HPLC quantification has a number of potential technical problems with peak width determination, background assessment, protein integrity etc.

Also, the Westerns in this manuscripts are in fact generally of good quality and with clear differences between variants.