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(56) Documents Cited:
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(54) Title of the Invention: **RNA and DNA base editing via engineered ADAR recruitment**
Abstract Title: **RNA and DNA base editing via engineered ADAR recruitment**

(57) Disclosed herein is a system to recruit ADARs to catalyze therapeutic editing of point mutations via the use of engineered RNA scaffolds, engineered DNA scaffolds or DNA-RNA hybrid scaffolds. The system comprises an engineered ADAR2 guide RNA (adRNA) that bears a 20-100bp complementarity with the target RNA and ADAR2 recruiting domain from the GluR2 mRNA at either or both the 5' end or the 3' end.

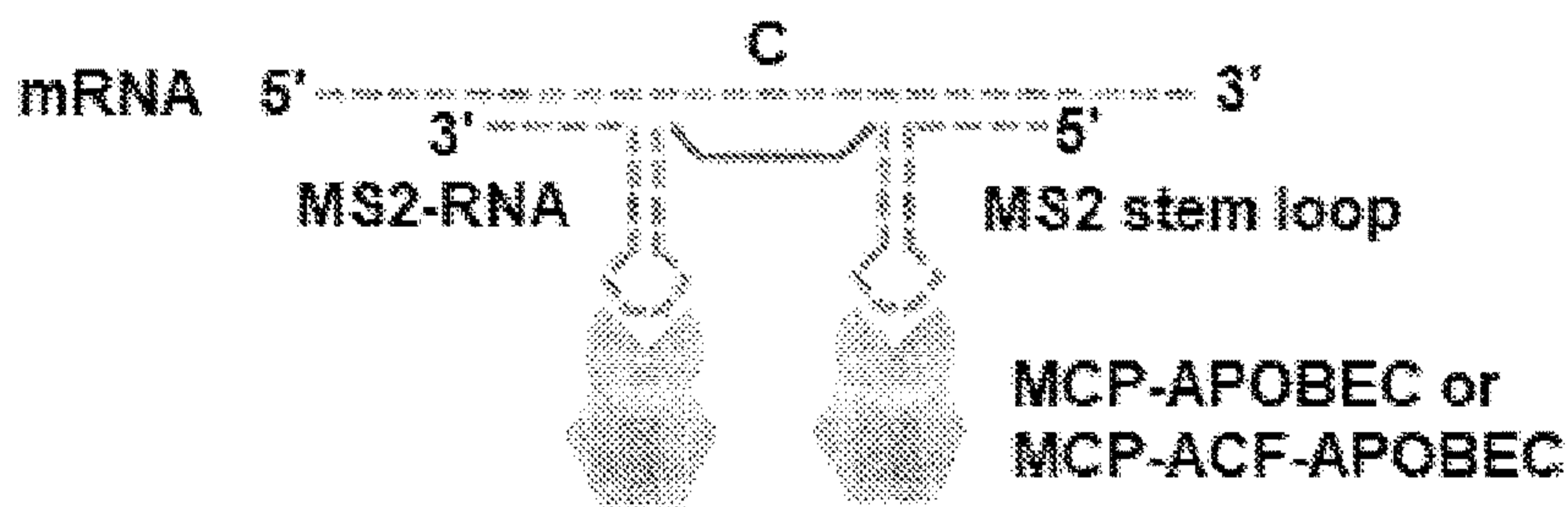


FIG. 4

% edited mRNA (RAB7A)

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