

Human microRNA inhibits expression of pathogenic gene underlying facioscapulohumeral muscular dystrophy

December 14 2021

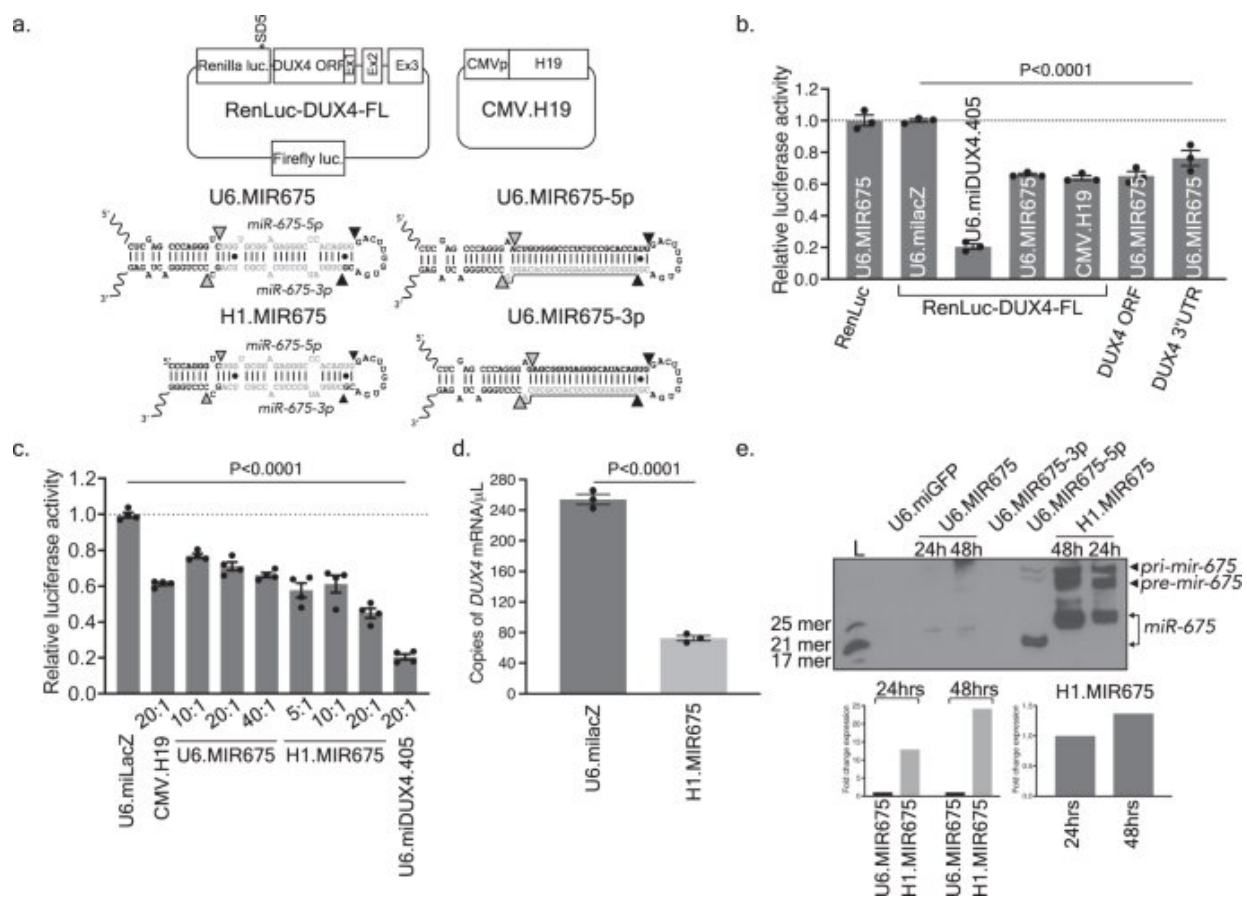


Fig. 1: miR-675 targets the DUX4 ORF and 3'UTR. a RenLuc-DUX4-FL dual-luciferase reporter and CMV.H19 constructs, and U6.MIR675, H1.MIR675, U6.MIR675-3p, and U6.MIR675-5p miRNAs. RenLuc-DUX4-FL contains DUX4 ORF and 3'UTR sequences fused to Renilla luciferase after the stop codon. Exons 1–3 are indicated (Ex1,2,3). *SD5 indicates silent mutation of a

cryptic splice donor in Renilla luciferase. Firefly luciferase is used as transfection control. b U6.MIR675 reduced relative Renilla luciferase activity in constructs containing full-length DUX4, DUX4 ORF only, or DUX4 3' UTR only ($35 \pm 3\%$, $34 \pm 2\%$, and $24 \pm 5\%$, respectively; P

Citation: Human microRNA inhibits expression of pathogenic gene underlying facioscapulohumeral muscular dystrophy (2021, December 14) retrieved 1 May 2024 from <https://medicalxpress.com/news/2021-12-human-microrna-inhibits-pathogenic-gene.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.