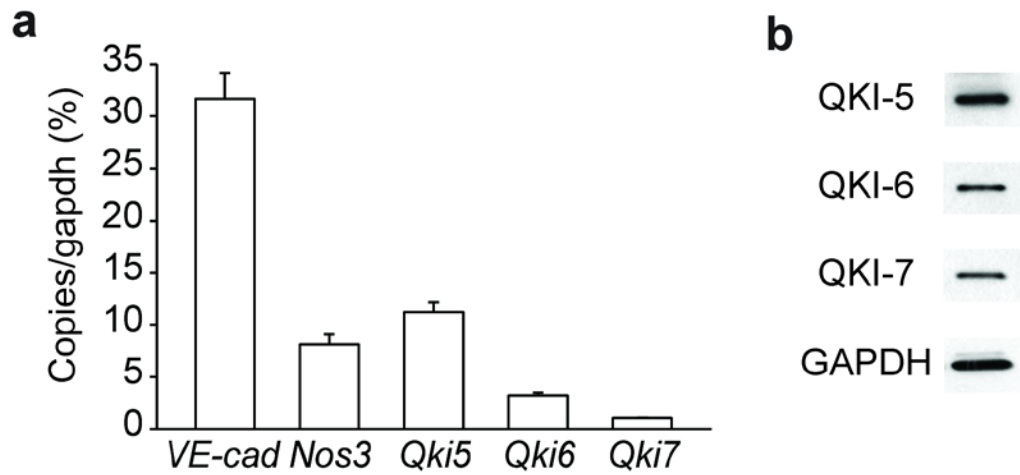


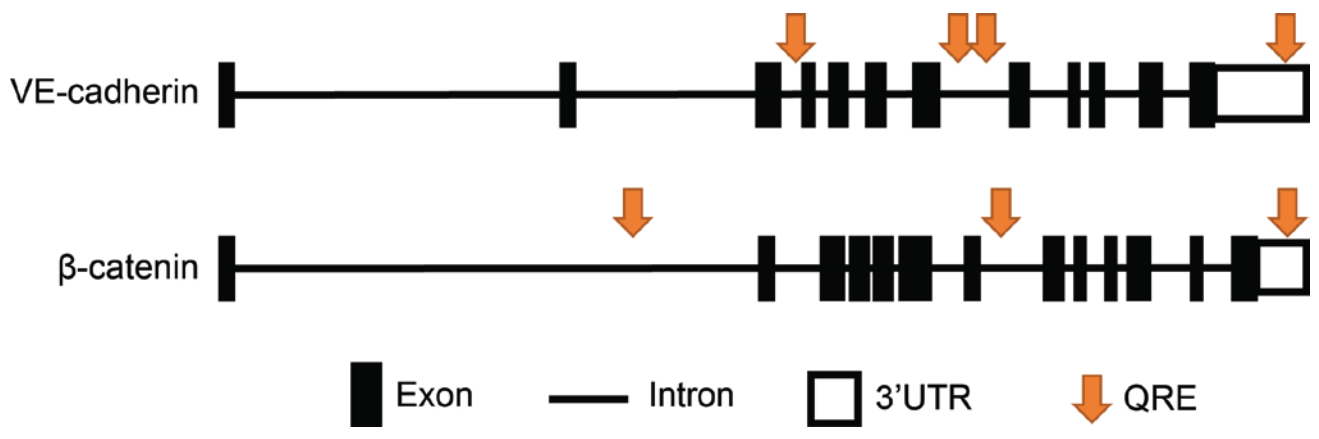
The RNA-binding protein quaking maintains endothelial barrier function and affects VE-cadherin and β -catenin protein expression

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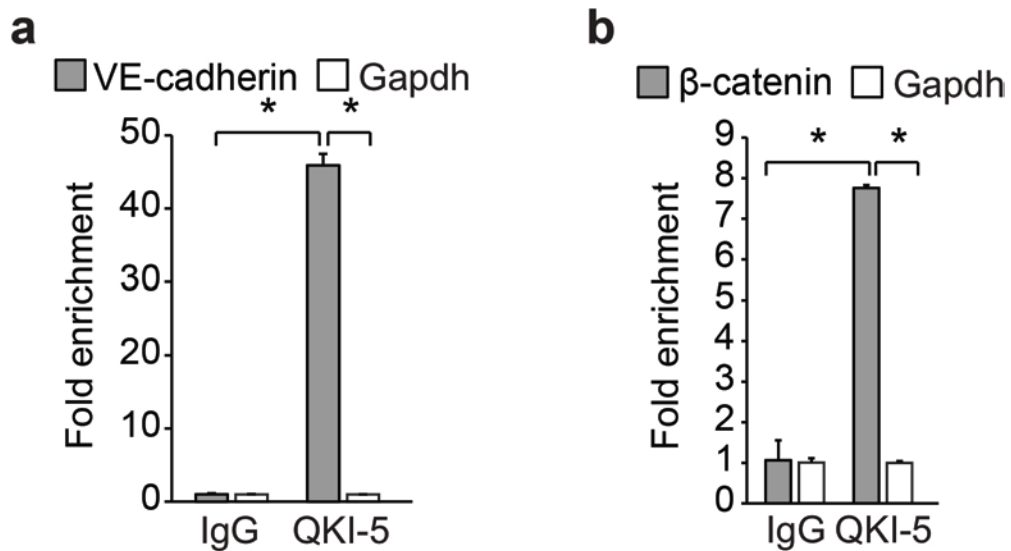
Supplementary figures



Supplementary figure 1. Quaking is highly expressed in HUVECs. (a) Quantitative RT-PCR analysis of *VE-cadherin*, *Nos3*, *Qki5*, *Qki6* and *Qki7* mRNA isolated from HUVECs. Results are presented as percentage of GAPDH. Mean \pm s.e.m. of $n=15$. (b) Immunoblot analysis of QKI-5, QKI-6, QKI-7 or GAPDH (loading control) in protein lysates of HUVECs.



Supplementary figure 2. Quaking Response elements in VE-cadherin and β -catenin. A schematic diagram of VE-cadherin and β -catenin pre-mRNA with QKI response elements (QREs).



Supplementary figure 3. Quaking protein binds to VE-cadherin and β -catenin mRNA. (a-b) RNA-immunoprecipitation in MVECs using an IgG control or QKI-5 antibody. VE-cadherin (a), β -catenin (b) or Gapdh mRNA abundance in immune-precipitated fraction was determined by qRT-PCR. Results are presented relative to IgG immunoprecipitation, set as 1. Mean \pm s.d. from one experiment representative of four independent experiments. * $P < 0.05$.