Identification of compounds improving the surface expression of mutant trafficking-deficient CNGA3-channels using an aequorin-based bioassay

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Trafficking defect can be measured with an aequorin-based bioassay

Mutations in CNGA3 cause protein misfolding which impair trafficking

Improve protein folding with chemical and pharmacological chaperones!
Chemical & pharmacological chaperones increase density of CNG-channel in the plasma membrane.