

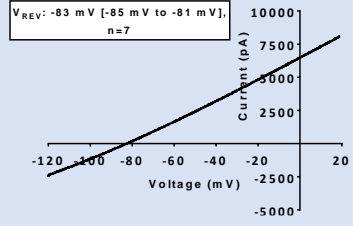
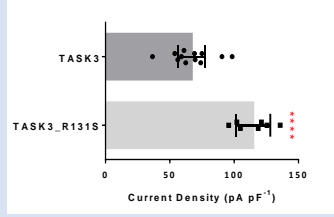
Gain and loss of TASK3 channel function and its regulation by novel variation cause *KCNK9* imprinting syndrome

Additional file 7

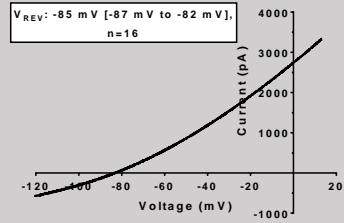
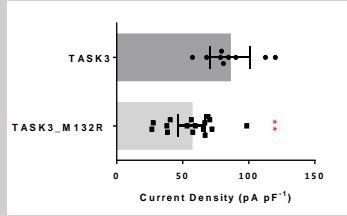
Table S3: A comparison of whole cell current density and reversal potentials between TASK3 clinical variants and matched WT controls. Current density (pA pF^{-1}) is measured as a difference of current (pA) seen at -40 mV and -80 mV, corrected for capacitance (pF). Error bars represent the 95% Confidence Intervals [CI] and the symbols represent individual data points. Current-voltage graphs were obtained from the averaged ramp changes in voltage between $+20$ and -120 mV for each variant and reversal potentials are expressed as the mean zero current level (mV) \pm [95% CI]. n represents the number of individual cells (box inset).

Clinical Variant	Current Density (pA pF^{-1})	Current Voltage Relationship and reversal potentials (V_{REV})
TASK3_G236R		
TASK3_R131C		
TASK3_R131H		
TASK3_R131P		

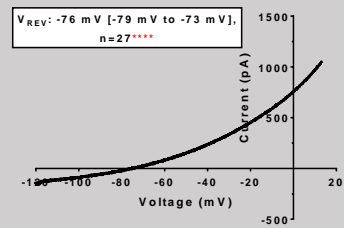
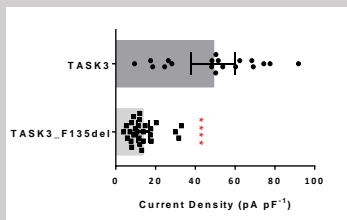
TASK3_R131S



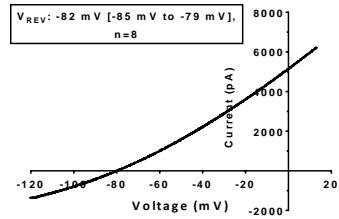
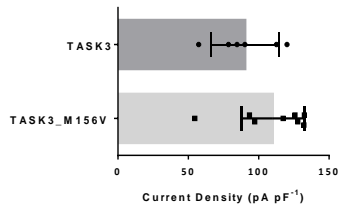
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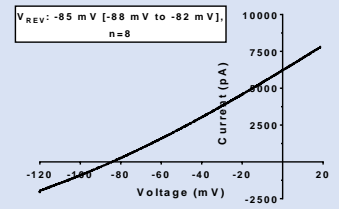
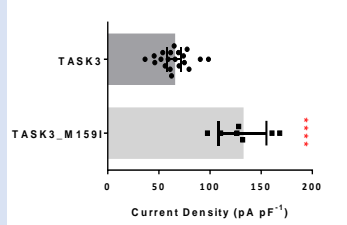
TASK3_F135deletion



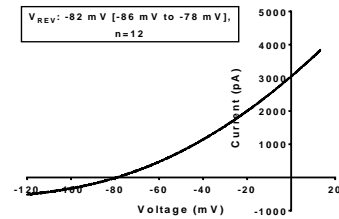
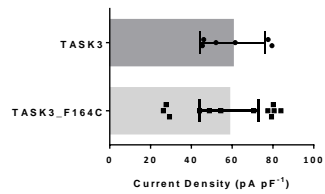
TASK3_M156V



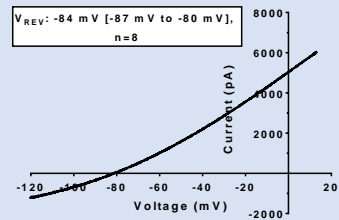
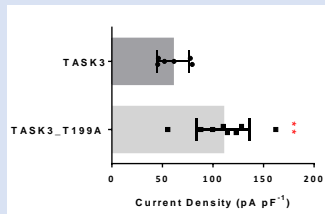
TASK3_M159I

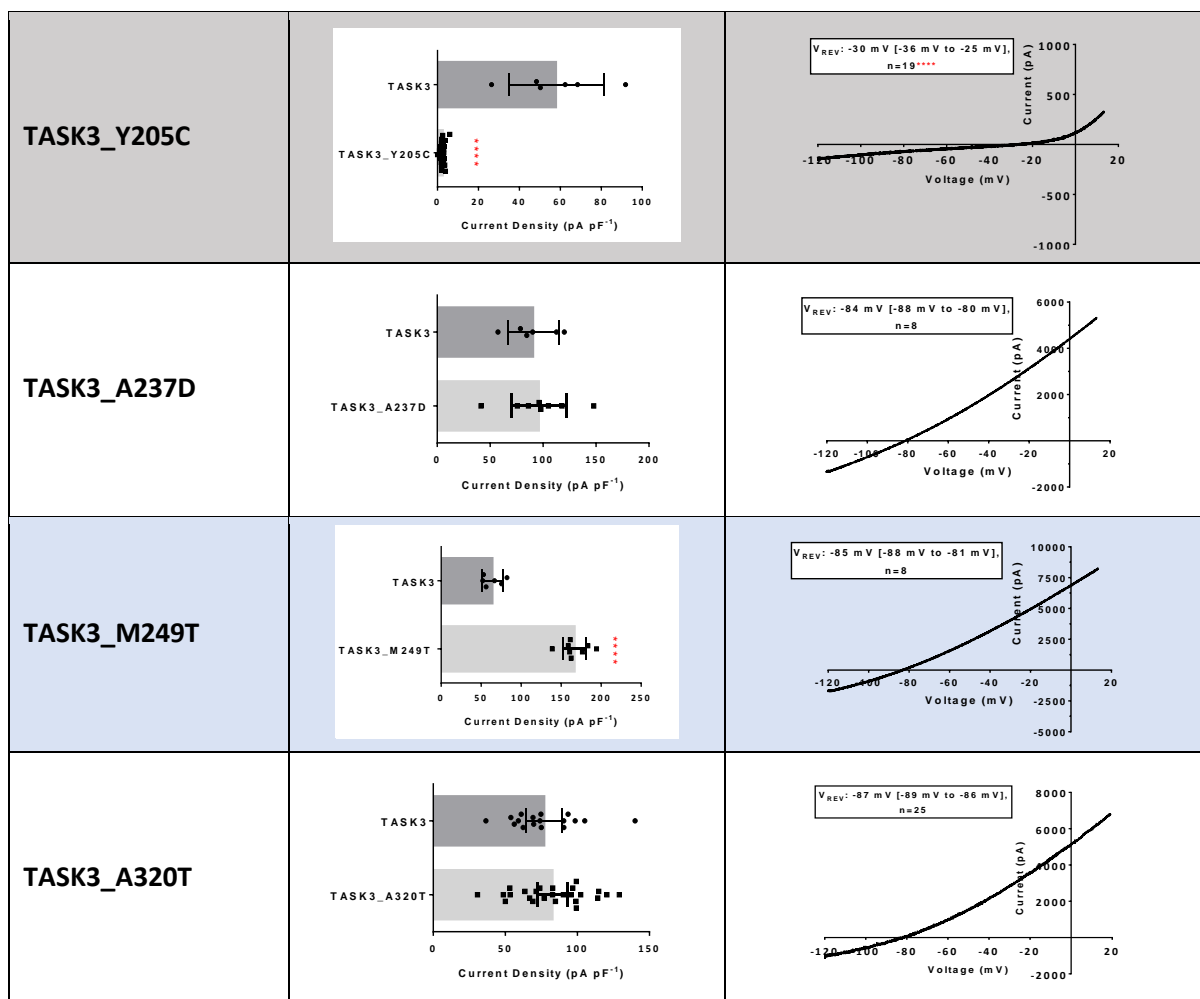


TASK3_F164C



TASK3_T199A





* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$ and **** $p < 0.0001$ for between group differences determined using an unpaired Student's t-test. Boxes highlighted light blue represent a significant increase in current density, whilst grey highlighted boxes represent a significant decrease in current density and white highlighted boxes signify no recorded change in current density from WT. Abbreviations: mV – millivolt, pA – picoamp, pF – picofarad, V_{REV} – reversal potential.