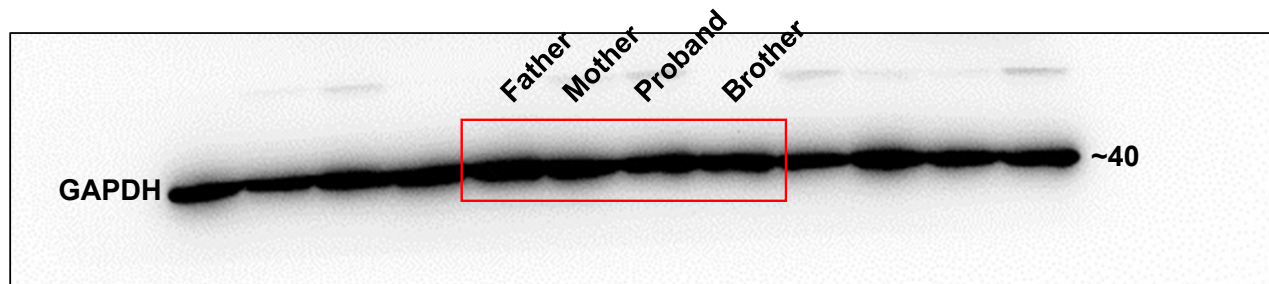
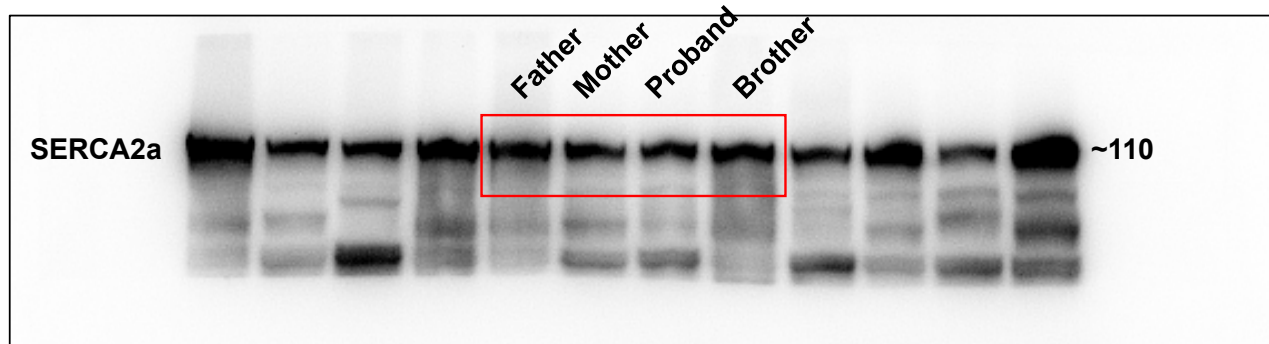
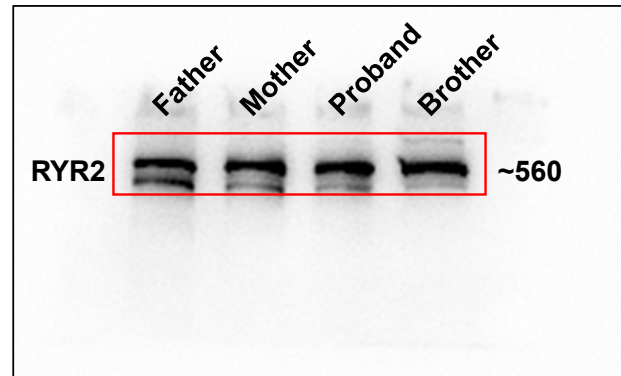


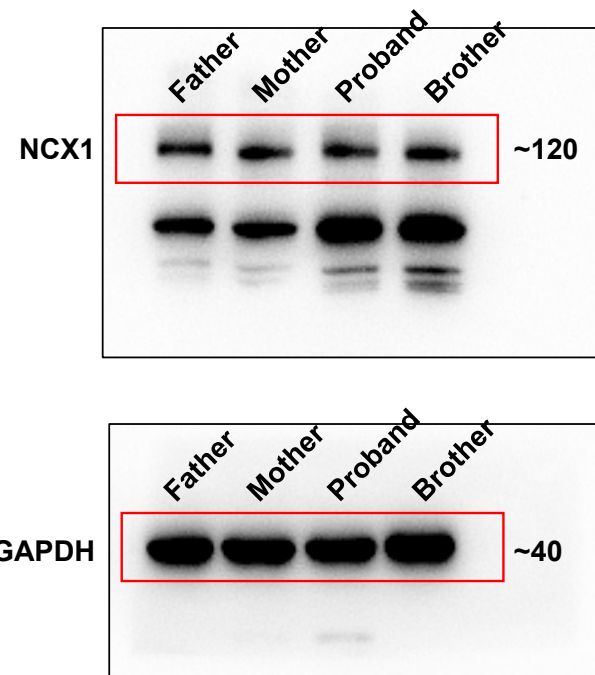
Full length blots of total and surface expression of WT and D356Y Na_v1.5 transiently transfected in HEK293 cells. Red boxes indicate the cropped blots shown in Figure 3i.



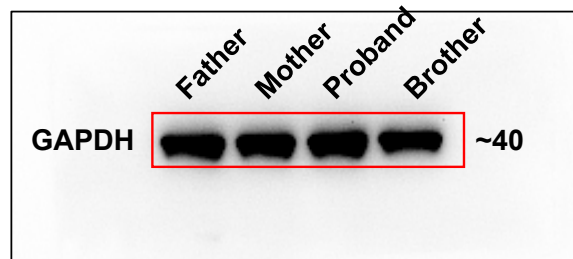
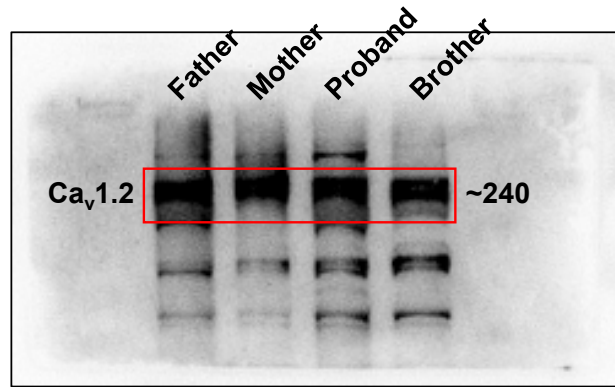
Full length blots of SERCA2a expression in father, mother, proband and brother iPSC-CMs. Red boxes indicate the cropped blots shown in Supplementary Figure 16a.



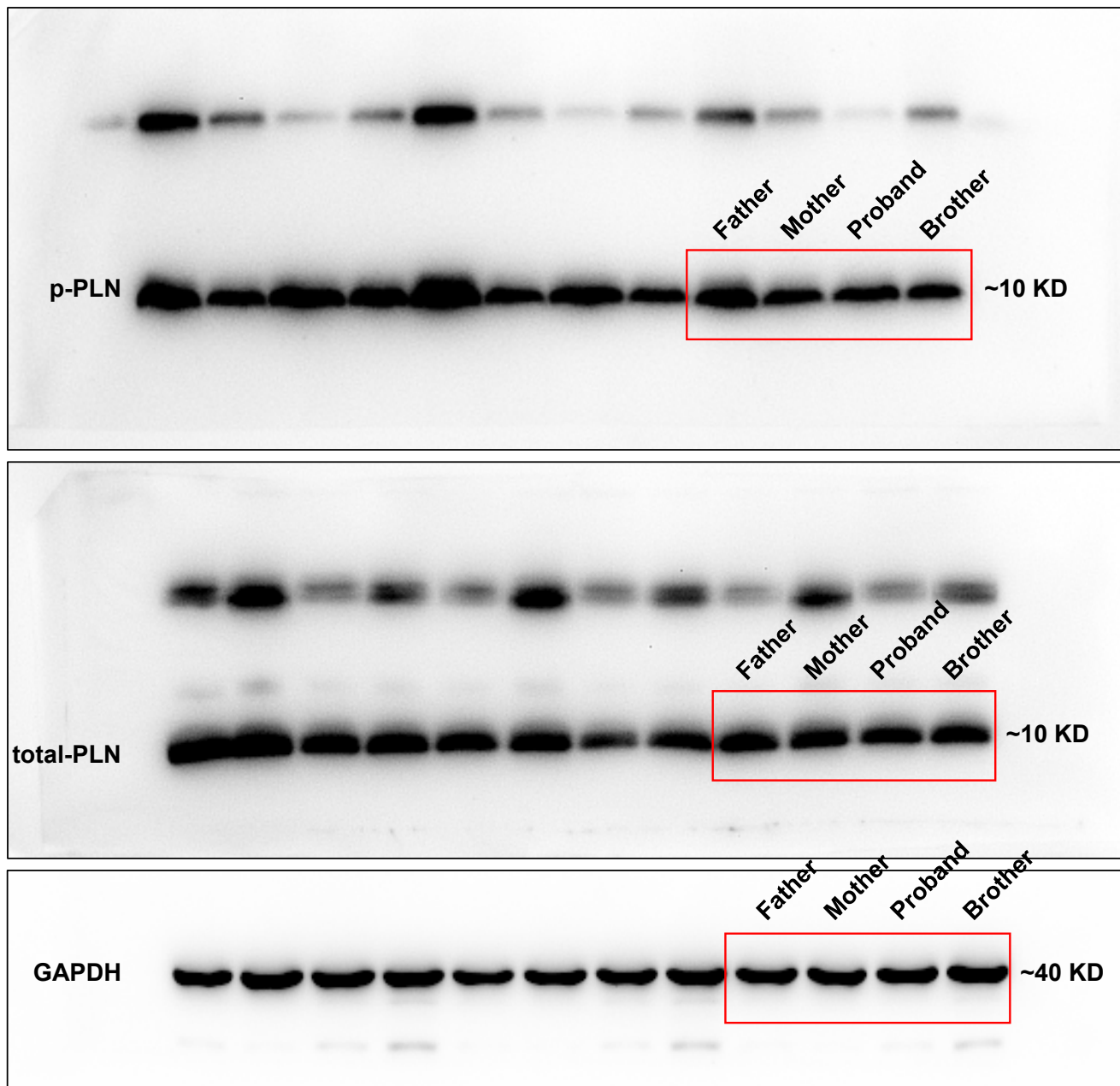
Full length blots of RYR2 expression in father, mother, proband and brother iPSC-CMs. Red boxes indicate the cropped blots shown in Supplementary Figure 16a.



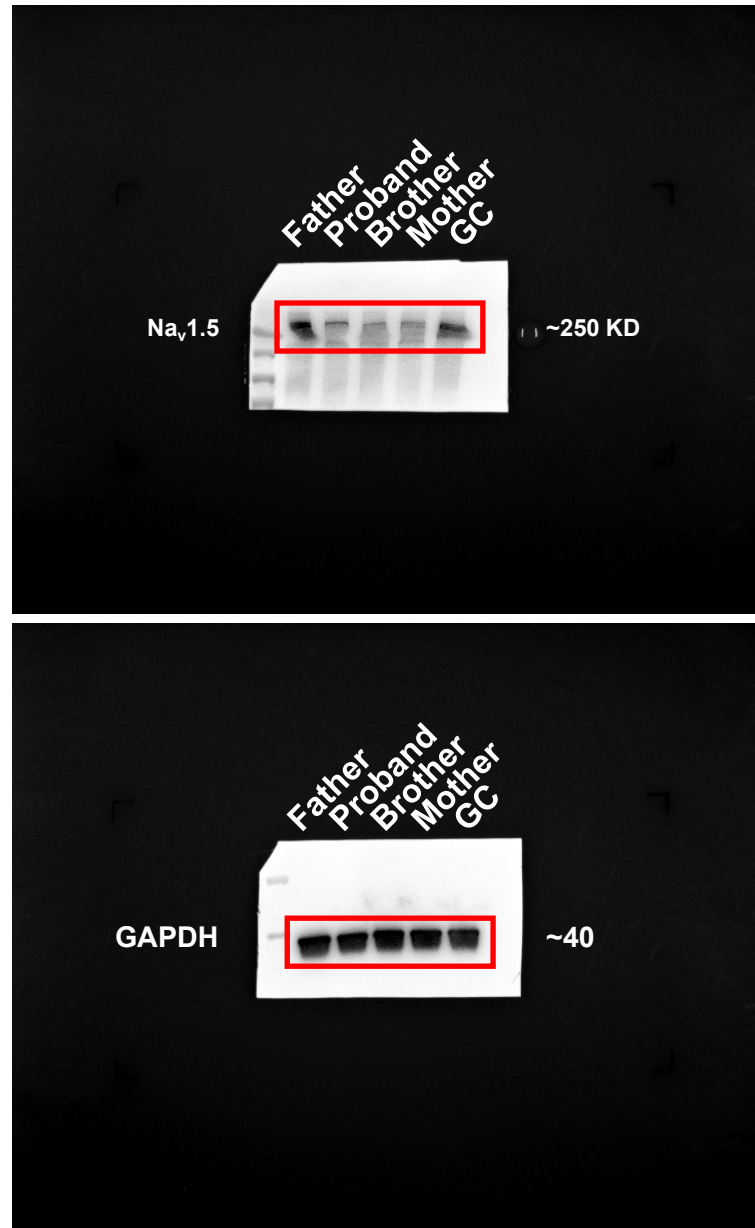
Full length blots of NCX1 expression in father, mother, proband and brother iPSC-CMs. Red boxes indicate the cropped blots shown in Supplementary Figure 16a.



Full length blots of $Ca_v1.2$ expression in father, mother, proband and brother iPSC-CMs. Red boxes indicate the cropped blots shown in Supplementary Figure 16a.



Full length blots of PLN expression in father, mother, proband and brother iPSC-CMs. Red boxes indicate the cropped blots shown in Supplementary Figure 16a.



Full length blots of Na_v1.5 expression in father, proband, brother, mother and GC iPSC-CMs. Red boxes indicate the cropped blots shown in Supplementary Figure 19a.