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Supplemental Information

Super-Resolution Imaging Reveals TCTN2 Depletion-Induced IFT88 Lumen Leakage and Ciliary Weakening

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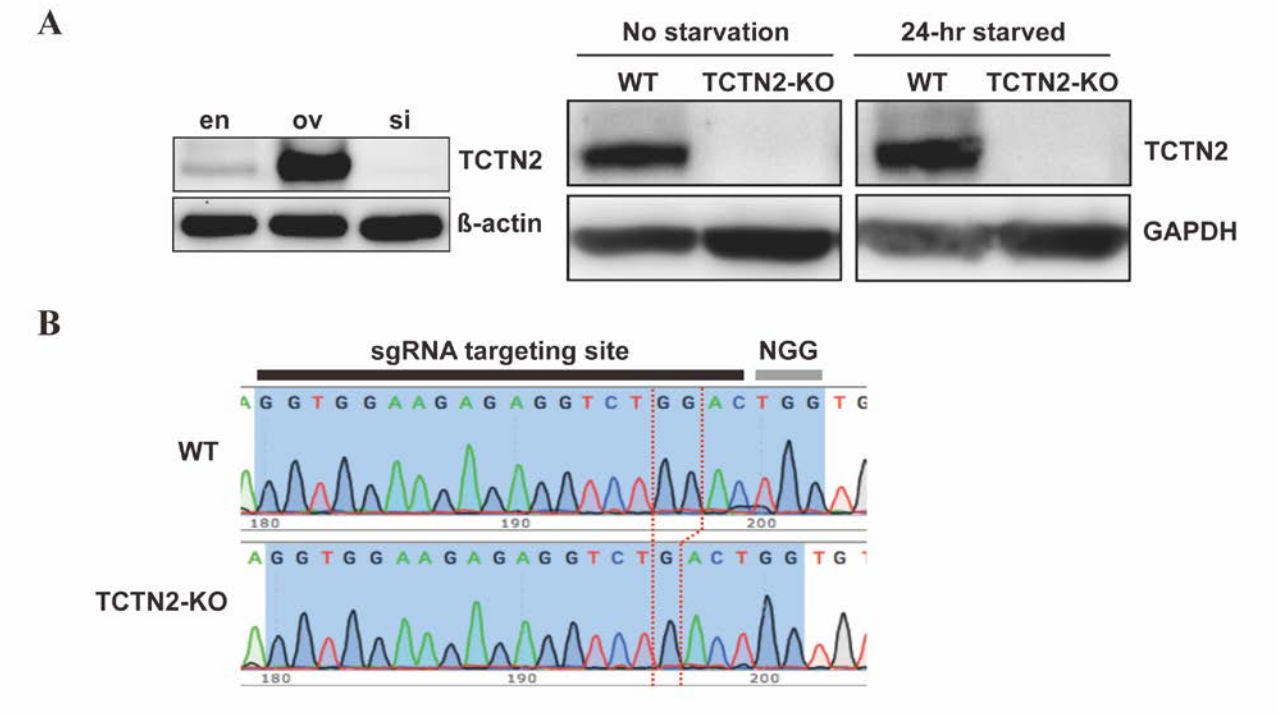

Figure S1. Validation of overexpression and depletion of TCTN2. (*A*) Immunoblotting of cells expressing endogenous (en), overexpressed (ov) and siRNA knockdown (si) of TCTN2 confirmed the effectiveness of antibody specificity, plasmid for overexpression and siRNA knockdown. CRISPR/Cas9 knockout (KO) efficiency is also verified. (*B*) A sequencing result showing loss of a guanine at the sgRNA targeting site of *TCTN2*$^{-/-}$ RPE1 cells.

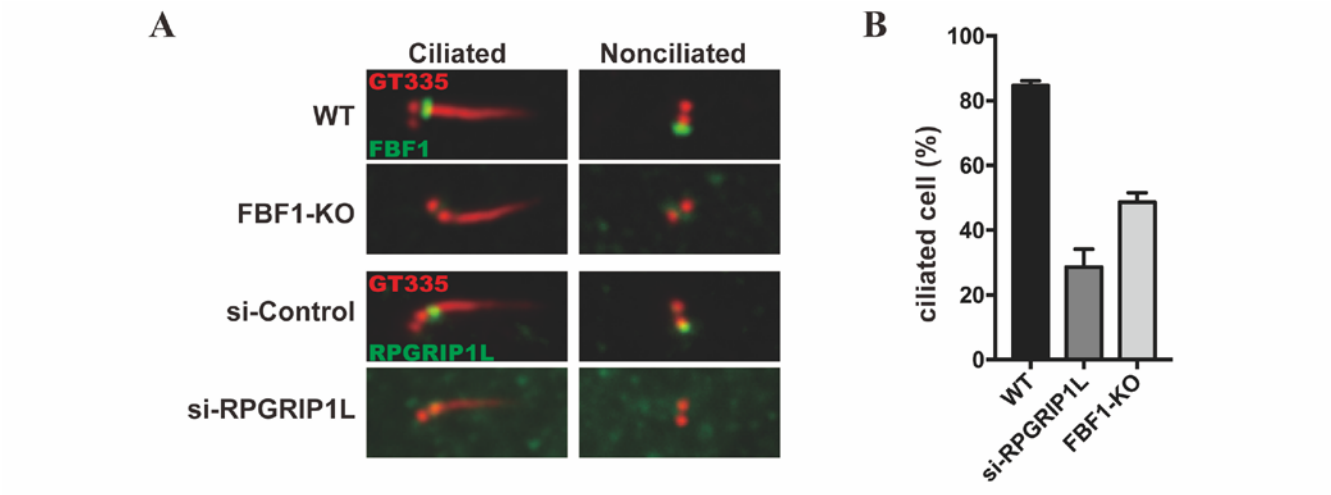

Figure S2. Validation of RPGRIP1L knockdown and FBF1 knockout efficiencies. (*A*) Immunostained images confirming the effectiveness of *RPGRIP1L* siRNA knockdown and *FBF1* CRISPR/Cas9 knockout. (*B*) Reduction of ciliation frequency by RPGRIP1L knockdown and FBF1 knockout.