Supplementary figure 1: A and B: Left Macular atrophic lesions with pigment proliferation, characteristic of macular degeneration, can be seen in both eyes.
Supplementary figure 2: The alternative candidate alleles in IRS1 gene follow a cis-segregation pattern.

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Supplementary figure 3: Lack of rescue potential of IFT81 mutant in RPE subjected to shRNA2 based knockdown of endogenous IFT81. A. Representative images displaying rescue of ciliogenesis in cells expressing shRNA2 by co-expression of WT IFT81 (top panel). Co-expression of mutant IFT81 does not rescue ciliogenesis (bottom panel). B. Quantification of cells co-expressing shRNA1 and WT or mutant IFT81 and corresponding ciliated cell percentage. C. The expression level of IFT81 wild-type and mutant protein in transfected 293T cell extract.
Supplementary figure 4: Synonymous base changes to make shRNA-resistant *IFT81* wild-type and mutant CDNA
Supplementary figure 5: A. Experimental Methodology for Immunoprecipitation and western blotting to confirm interaction with of WT and c.1841T>C mutant allele with IFT52. B. The c.1841T>C mutant allele does not significantly alter the interaction of IFT81 with IFT52/46 sub-complex.