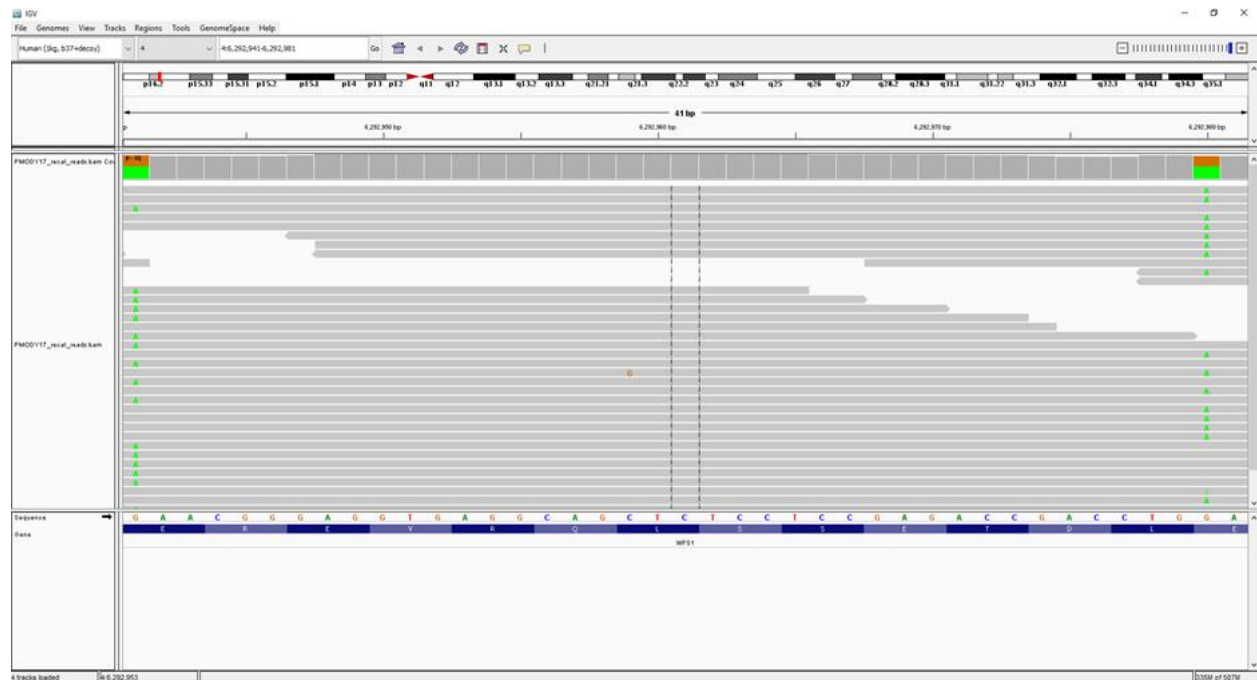




Supplementary Figure 1 NGS read alignments showing the two WFS1 variants in patient P-17, highlighted in green at the right and left edges. It is clear that the two variants (which happened to be on the same exon and only 39 bp apart), fall on different reads (or read pairs), demonstrating compound heterozygosity.

Supplementary Table 1 Demographic and clinical characteristics of the participants selected for exome sequencing

S.No	Patient ID	Current Age	Age at diagnosis	Gender	Fasting sugar level mg/dl/ (Hba1C)	Mother affected	Father affected	BMI	GAD 65	Treatment	Type of treatment	Any complications
	471	25	NA	Male	237	NA	NA	22	Negative	NA	NA	NA
	612	27	25	Female	119 (9.2)	Yes	Yes	22	Negative	Yes	OHA	NA
	705	23	NA	Male	148 (5.4)	NA	NA	26	Negative	NA	NA	NA
	830	21	NA	Female	7.2	NA	NA	NA	Negative	NA	NA	NA
	P-4	29	25	Male	173 (7.5)	No	Yes	27	NA	No	-	-
	P-5	26	24	Male	149 (6.10)	No	No	16	NA	Yes	OHA	Neuropathy
	P-9	20	20	Male	159 (6.20)	No	No	20	NA	No	-	-

.	P-12	16	16	Male	290 (10.8)	Yes	Yes	19	Negati ve	No	-	-
.	P-13	23	23	Femal e	279 (8.4)	Yes	No	22	Negati ve	No	-	-
.	P3353 0	25	-	Male	NA	Yes	No	22	Negati ve	-	-	-
.	P4361 4	28	18	female	NA	Yes	Yes	21	Negati ve	Yes	Insulin	-
.	P8393 6	20	18	female	NA	Yes	Yes	26	Negati ve	Yes	Insulin	-
.	P-17	31	15	female	NA	Yes	No	19	Negati ve	Yes	Insulin	-
.	P68	15	13	Male	6.8	Yes	No	NA	NA	Yes	Insulin	-
.	P69	18	18	Male	7.6	Yes	No	NA	NA	NA	NA	-
.	P71	13	12	Male	7.10	No	Yes	14	NA	Yes	Insulin	-
.	P78	52	20	Femal e	10.10	Yes	Yes	26	NA	Yes	Insulin	--
.	P79	37	19	Male	9.8	Yes	No	31	NA	Yes	Insulin	-
.	P87	26	25	Male	6.10	Yes	No	31	NA	Yes	Insulin	-
.	P90	21	4	Femal	8.20	Yes	No	24	NA	Yes	Insulin	-

				e								
.	91	22	14	Male	12	Yes	No	20.3 2	NA	Yes	Insulin	-
.	92	26	16	female	9.7	No	Yes	25.4	NA	Yes	Insulin	-
.	88	23	21	female	9.6	No	Yes	26.9 6	NA	Yes	Insulin	-
.	85	17	3	Male	9.4	Yes	No	17.9 4	NA	Yes	Insulin	-
.	86	18	18	female	6.6	Yes	No	28	NA	NA	NA	-
.	84669	25	25	male	NA	Yes	No	20	Negati ve	Yes	Insulin	-
.	08	25	25	Male	7.8	Yes	No	24	Negati ve	No	-	-
.	66103	16	14	Femal e	NA	Yes	No	24.5	NA	yes	OHA	-