Supplementary table 1. Clinical, personal and family history of carriers and affected patients.					
ID	Clinical and personal history	Relative(s) included in the present study	Additional family history, marriage and childbearing history		
C1	Negative	C3 (brother), C8 (mother)	Maternal cousins affected by LHON		
C2	Negative	C4 (brother), C7 (mother), P1 (maternal first cousin)	Two maternal uncles affected by LHON		
C3	Migraine without auraCurrent smoker (40 cigarettes per day)	C1 (brother), C8 (mother)	Maternal cousins affected by LHON		
C4	Negative	C2 (brother), C7 (mother), P1 (maternal first cousin)	Two maternal uncles affected by LHON		
C5	Negative	None	Mother affected by LHON		
C6	Negative	P6 (brother)	Maternal uncle affected by LHON		
C7	 Migraine without aura Arterial hypertension in treatment with Olmesartan and Amlodipine Former smoker 	C2 (son), C4 (son), P1 (nephew)	Two brothers affected by LHON		
C8	 Migraine with aura Psoriasis under treatment with topical steroid Dizziness under treatment with Betaistine Vasovagal syncope Magnesium supplementation 	C1 (son), C3 (son)	Nephews affected by LHON		
C9	 Migraine with aura Arterial hypertension under treatment with Telmisartan Vitamin B supplementation 	P5 (son)	Negative		
C10	Negative	None	One son affected by LHON and one asymptomatic son		
P1	 Current intake of Idebenone 900 mg/day No relevant medical history except for sleep 	C2 (maternal first cousin), C4 (maternal first cousin), C7 (aunt)	Two maternal uncles affected by LHON		

	parasomnia (somnambulism)		
P2	 Current intake of Idebenone 900 mg/day No relevant medical history 	None	Negative
P5	 Current intake of Idebenone 900 mg/day, multivitamin supplementation No relevant medical 	C9 (mother)	Negative
	history except for allergic rhinitis in therapy with antihistaminic drug		
P4	 Current intake of Idebenone 900 mg/day No relevant medical history 	None	Negative
P8	Current intake of Idebenone 900 mg/dayCurrent smoker	None	Negative
P3	 Current intake of Idebenone 900 mg/day Mood disorder (depression) in the last 6 years in therapy with Valproic acid, Venlafaxine, Olanzapine and Delorazepam Migraine without aura 	None	Negative
P7	 Current intake of Idebenone 900 mg/day, vitamin B supplementation Current smoker 	None	Negative
P6	 Current intake of Idebenone 900 mg/day Viral meningitis at 17 years Former smoker 	C6 (sister)	Maternal uncle affected by LHON