Supplementary File 1. Genes associated with acute liver failure

Gene	Disease	Reference
TRMU	Liver failure, transient infantile	[1]
GFM1	Combined oxidative phosphorylation deficiency 1	[2]
TSFM	Combined oxidative phosphorylation deficiency 3	[3]
POLG	Mitochondrial DNA depletion syndrome 4A (Alpers type)	[4]
DGUOK	Mitochondrial DNA depletion syndrome 3 (hepatocerebral type)	[5]
MPV17	Mitochondrial DNA depletion syndrome 6 (hepatocerebral type)	[6]
LARS	Infantile liver failure syndrome 1	[7]
NBAS	Infantile liver failure syndrome 2	[8]
SCYL1	Spinocerebellar ataxia, autosomal recessive 21	[9]
DLD	Dihydrolipoamide dehydrogenase deficiency	[10]
EIF2AK3	Wolcott-Rallison syndrome	[11]
ALDOB	Fructose intolerance	[12]

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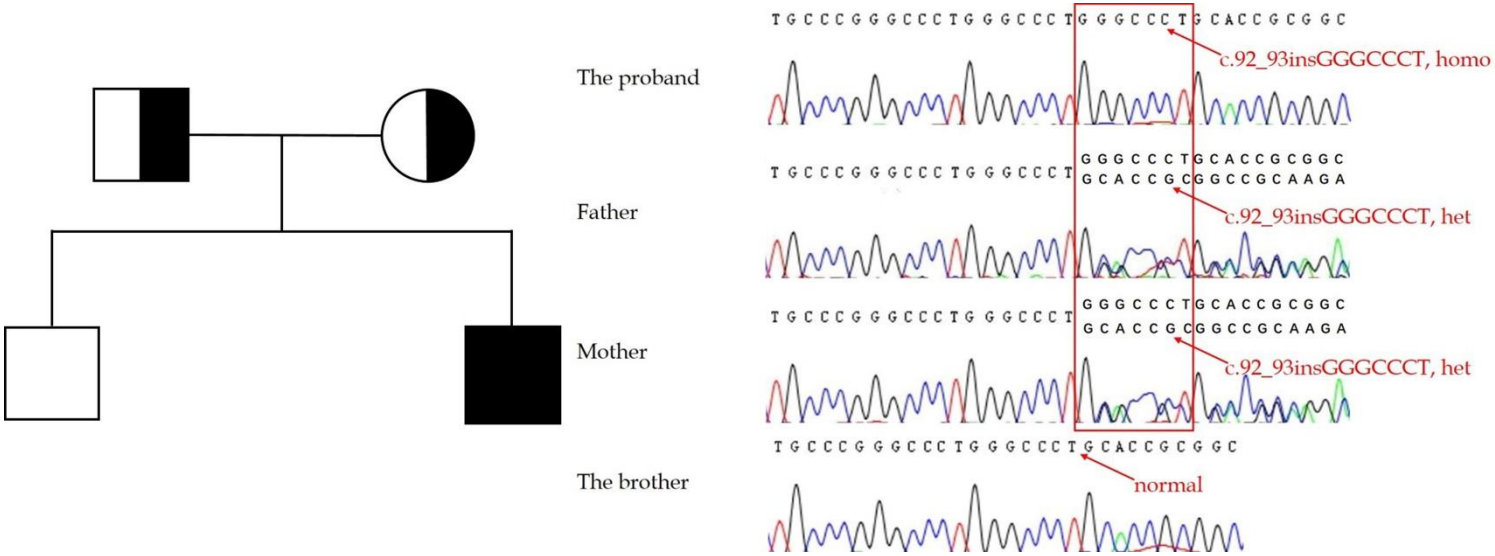
Supplementary File 2. Mutated region, *SCYL1*, in proband, brother, and parents, with pedigree



Homo: Homozygote; Het: Heterozygote.

Supplementary File 3. Age at onset of hepatic and neurologic abnormalities

Patient	Age at first episode of RALF	Neurogenic stutter (yr)	Walking independently (mo)	Gait ataxia	Tremor (type, age)	References
P1	9 mo	20	17	Early childhood	Intention, early childhood	Schmidt *et al*[1]
P2	9 mo	4	24	Early childhood	Intention, early childhood	Schmidt *et al*[1]
P3	18 mo	3	12	3 yr	Action, NA	Schmidt *et al*[1]
P4	NA	NA	NA	NA	NA	Smith *et al*[2]
P5	11 mo	Temporary	15	None	None	Lenz *et al*[3]
P6	7 mo	None	14	None	None	Lenz *et al*[3]
P7	5 mo	None	15	None	None	Lenz *et al*[3]
P8	6 mo	None	NA	None	Action, 4 yr	Lenz *et al*[3]
P9	4 yr	10	15	9 yr	Intention, 6 yr	Lenz *et al*[3]
P10	10 mo	4	15	5 yr	Intention, 6 yr	Lenz *et al*[3]
P11	18 mo	2	15	None	None	Lenz *et al*[3]
P12	4 mo	none	22	Yes, NA	Action, 1 yr	Shohet *et al*[4]
P13	Infancy (not further	Yes, NA	12	Yes, NA	Intention, NA	Shohet *et al*[4]

	specified)					
P14	None	NA	Normal, NA	2 yr 9 mo	23 mo	Spagnoli *et al*[5]

NA: Not available. The age at onset of signs of peripheral neuropathy was not precisely reported.

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