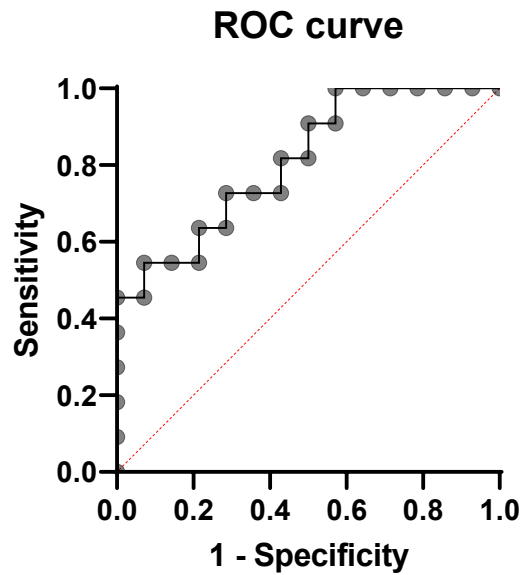




Supplementary Figure 1. Area under curve of receiver operating characteristic (ROC curve) for multivariable model of the square root-transformed variables (Sqrt) for miR-323a-3p and miR-625-3p expression levels).

Supplementary Table 1. Demographic and clinical features.

Patients (N)	34
Sex (M/F)	17 M (50%) / 17 F (50%)
Age (mean/range)	39 years (19-64)
Age at onset (mean/range)	17 years (6-43)
Disease duration (mean/range)	23 years (11-44)
Expanded CAG repeats in the larger allele (mean/range)	614 (250-1000)
Diabetes (N/%)	9(26%)
Cardiomyopathy (N/%)	15 (44%)

Supplementary Table 2. Statistical analysis of circulating miRNAs in FRDA patients and controls, showing unadjusted and Benjamini–Hochberg FDR-adjusted p-values

miRNA	Raw p-value	FDR-adjusted p	Significant (FDR<0.05)
hsa-miR-128-3p	0.0015	0.0035	Yes
hsa-miR-330-3p	0.0281	0.0393	Yes
hsa-miR-625-3p	0.0014	0.0035	Yes
hsa-miR-142-3p	0.8833	0.8833	No
hsa-miR-130b-5p	0.0881	0.1028	No
hsa-miR-151a-5p	0.0196	0.0343	Yes
hsa-miR-323a-3p	0.0006	0.0035	Yes

Supplementary Table 3. Baseline characteristics of FRDA patients stratified by cardiomyopathy phenotype (n=32). For continuous variables Mann-Whitney U test was used and for categorical variables, Fisher's exact test was applied. Two patients were excluded from cardiac phenotype due to echocardiogram was performed 6-8 years prior to blood sampling.

Characteristic	No Cardiomyopathy (n=17)	Cardiomyopathy (n=15)	p-value
Age (mean/range)	42 years (24-64)	36 years (19-55)	0.2051
Sex (M/F)	6 (35%) M / 11 F (65%)	10 (67%) M / 5 F (33%)	0.1556
Age at onset (mean/range)	20 years (11-43)	13 years (6-27)	0.0218
Disease duration (mean/range)	23 years (11-40)	23 years (11-44)	0.8375
Expanded CAG repeats in the larger allele (mean/range)	767 (466-1000)	834 (466-1000)	0.5203
Diabetes (N/%)	4 (31%)	4 (36%)	>0.9999