Supplementary figure S1.

Slc25a35
Tmem242
Slc12a4
Fitm2

Supplementary figure S2.

c

Control MO
FITM1＋FITM2 MO 100μM

d

Ratio of cardiac edema (%)
100
80
60
40
20
100μM
100
300μM
Ctrl MO
FITM1+FITM2 MO

e

no injection

FITM1

FITM2

Phenotype	**Ctrl. MO 100μM**	**FITM1 MO 50μM**	**FITM1 MO 100μM**	**FITM1 MO 200μM**
Cardiac edema	0% (0/26)	0% (0/47)	25.7% (19/74)	100% (47/47)
Cardiac hypertrophy	0% (0/26)	0% (0/47)	13.5% (10/74)	31.9% (15/47)

Supplementary table 3. Cardiac phenotypes caused by morpholino-mediated knockdown of FITM1 in zebrafish.

Procedure is given in the Supplementary Figure S2. Each concentrations is indicated in the table.

Phenotype	**Ctrl. MO 100 μM**	**FITM1+FITM2 MO 100 μM**	**FITM1+FITM2 MO 300 μM**
Cardiac edema	0% (0/43)	100% (35/35)	100% (67/67)
Slow heart beat	0% (0/43)	100% (35/35)	64.2% (43/67)
Blood circulation defect	0% (0/43)	60.0% (21/35)	44.8% (30/67)

Supplementary Table 4. Cardiac phenotypes caused by morpholino-mediated knockdown of both of FITM1 and FITM2 in zebrafish.

Procedure is given in the Supplementary Figure S2. Each concentrations is indicated in the table.