

Supplemental Table S1. Original qPCR data of Figure 1F

	WT1	WT2	WT3	WT4	MUT1	MUT2	MUT3	MUT4
<i>Iars1</i>	22.28	22.85	22.16	22.67	22.23	22.87	22.09	22.25
<i>Iars1</i>	22.41	22.93	22.21	23.15	22.23	22.73	22.05	22.24
<i>Actin</i>	14.25	15.18	14.03	12.32	12.36	14.13	12.43	12.31
<i>Actin</i>	13.67	15.14	13.66	14.30	12.22	13.54	12.32	12.17
Result	0.94	1.48	0.97	0.61	0.32	0.40	0.38	0.31

WT = *Iars1*^{+/+}, MUT = *Iars1*^{Y148C/R444*}

Supplemental Table S2. Original qPCR data of Figure 5F

	WT1	WT2	WT3	WT4	MUT1	MUT2	MUT3	MUT4
<i>Ctsz</i>	19.55	17.41	17.45	17.50	17.51	17.36	17.19	17.11
<i>Ctsz</i>	18.73	17.43	17.44	17.60	17.38	17.15	17.14	17.12
<i>Ctsz</i>	18.31	17.44	17.47	17.48	17.42	17.24	17.16	17.18
<i>Actin</i>	14.63	13.01	12.96	12.72	13.63	13.32	13.46	12.33
<i>Actin</i>	14.46	13.50	13.59	13.46	13.99	13.69	13.48	13.37
<i>Actin</i>	14.63	13.63	13.66	13.11	14.03	13.68	13.71	13.61
Result	0.98	1.09	1.09	0.84	1.54	1.40	1.48	1.10

WT = *Iars1*^{+/+}, MUT = *Iars1*^{Y148C/R444*}

Supplemental Table S3. Original qPCR data of Figure 5G

	siNC	si <i>Iars1</i>
<i>Ctsz</i>	19.71	18.94
<i>Ctsz</i>	20.04	18.94
<i>Ctsz</i>	20.01	18.82
<i>Actin</i>	15.42	11.54
<i>Actin</i>	15.31	11.53
Result	1.01	1.14

Supplemental Table S4. Original qPCR data of Figure 5H

	siNC	si <i>Ctsz</i> 1#	si <i>Ctsz</i> 2#	si <i>Ctsz</i> 3#
<i>Ctsz</i>	18.37	20.58	19.35	19.87
<i>Ctsz</i>	18.38	20.01	19.97	19.86
<i>Actin</i>	14.60	14.39	14.32	14.10
<i>Actin</i>	14.24	14.29	14.27	13.95
Result	1	0.25	0.39	0.27