

Major Resources Table

Animals

Species	Vendor or Source	Background Strain	Sex	Persistent ID / URL
Yucatan Mini-pigs	Exemplar Genetics	N/A	Male	https://precigen.com/companies/precigen-exemplar/ PMID: 34365814

Genetically Modified Animals

	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
I61Q cTnC	Mouse	Davis Lab	FVB	FVB-Tg(Myh6/tetO-Tnnc1*I61Q)	https://www.jax.org/strain/030371 PMID: 27114035

Data & Code Availability

Description	Source / Repository	Persistent ID / URL
MuscleX Software	Github	https://musclex.readthedocs.io/en/latest/

Other

Description	Source / Repository	Persistent ID / URL
Danicamtiv	MedChemExpress	https://www.medchemexpress.com/danicamtiv.html
Omecamtiv Mecarbil	MedChemExpress	https://www.medchemexpress.com/Omecamtiv-mecarbil.html
GraphPad Prism 9.5.1	GraphPad Software	https://www.graphpad.com/scientificsoftware/

ARRIVE GUIDELINES

The ARRIVE guidelines (<https://arriveguidelines.org/>) are a checklist of recommendations to improve the reporting of research involving animals. Key elements of the study design should be included below to better enable readers to scrutinize the research adequately, evaluate its methodological rigor, and reproduce the methods or findings.

Study Design

Groups	Sex	Age	Number (prior to experiment)	Number (after termination)	Littermates (Yes/No)	Other description
WT	M/F	12-18 weeks	10	10	Yes	
I61Q cTnC	M/F	12-18 weeks	11	10	Yes	

Sample Size: Please explain how the sample size was decided Please provide details of any a *prior* sample size calculation, if done.

Inclusion Criteria: All mice with appropriate genotype were enrolled in the study.

Exclusion Criteria: None.

Randomization: Yes

Blinding: Person analyzing the echocardiogram was blinded to the treatment or genotype group.