Supplementary Material

Figure S1

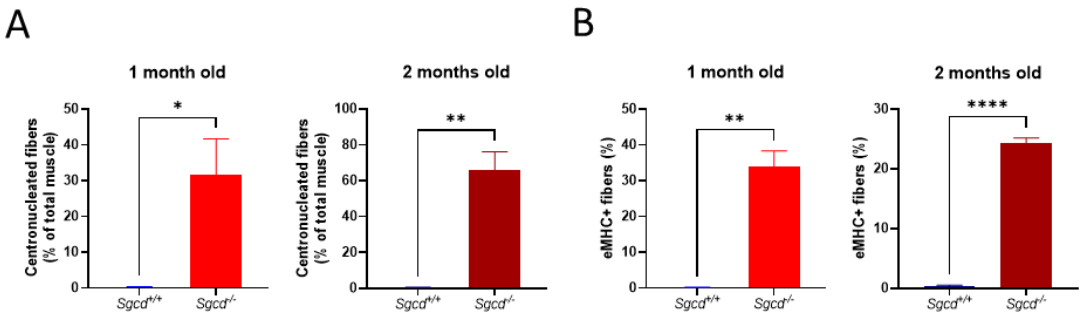

Fig. S1 A. Quantification of centrally nucleated fibers (% of total muscle section) shown in Fig. 2C. **B.** Quantification of eMHC-positive fibers shown in Fig. 2D. Analyses were performed using an unpaired two-tailed t-test comparing mice at each age (n = 3). Values represent means ± SEM; *p≤0.05, **p≤0.01, and ****p≤0.0001.

Figure S2

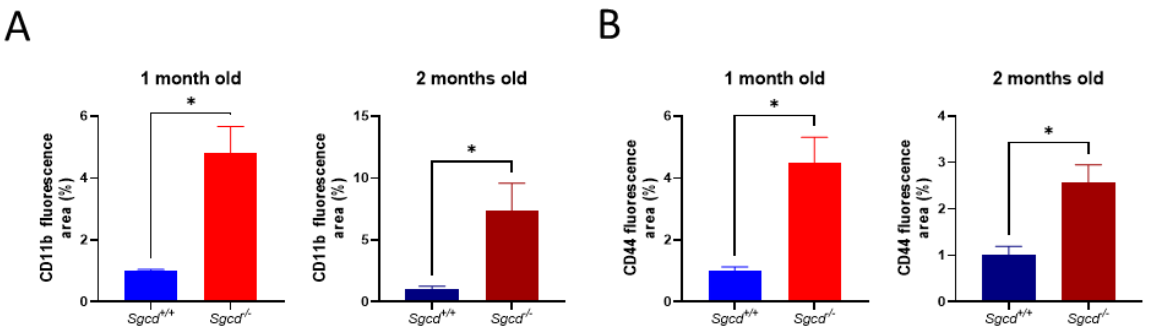

Fig. S2 A. Quantification of CD11b (monocyte/MPs marker) and **B.** CD44 (active T-cell marker) fluorescence area (% of total muscle section) shown in Fig. 3B. Analyses were performed using an unpaired two-tailed t-test comparing mice at each age (n = 3). Values represent means ± SEM normalized to *Sgcd*$^{+/+}$ mice; *p≤0.05.

Figure S3

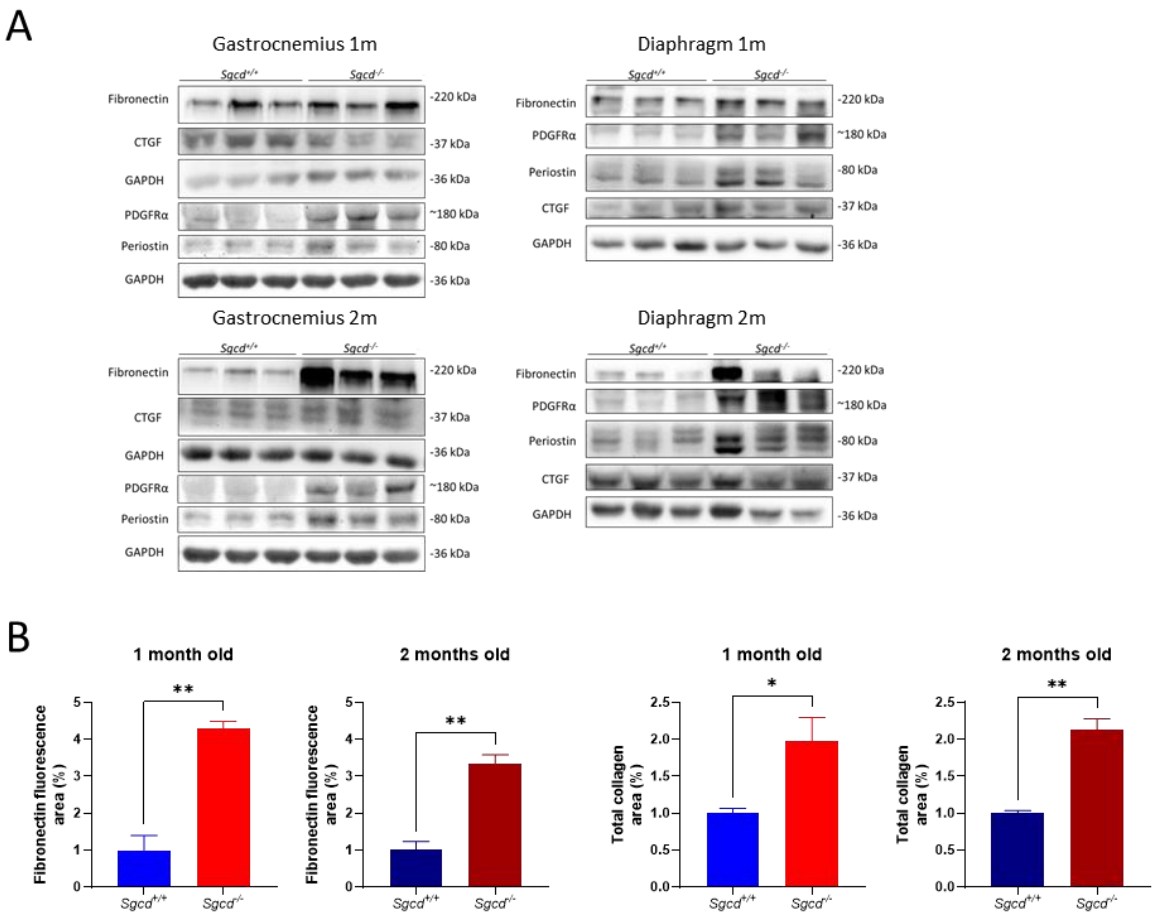

Fig. S3 A. Immunoblot analyses in GST and DFG in sarcoglycanopathy. Quantification of GST and DFG is shown in Fig. 4B. **B**. Quantification of fibronectin fluorescence and total collagen deposition areas (% of total muscle section) shown in Fig. 4C. Analyses were performed using an unpaired two-tailed t-test comparing mice at each age (n = 3). Values represent means ± SEM normalized to *Sgcd*$^{+/+}$ mice; *p≤0.05 and ** p≤0.01.

Figure S4

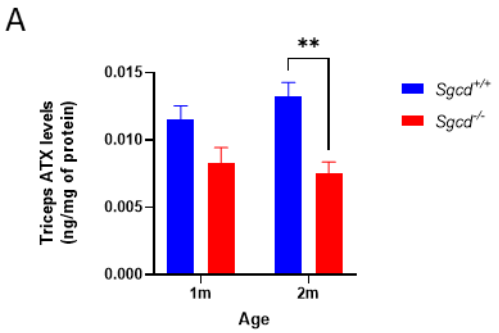

Fig. S4 A. Quantification of ATX levels in the TR muscle (n = 4). Two-way ANOVA with Šídák multiple comparisons post-test was used to compare mice at each age. Values represent mean ± SEM; *p≤0.05.

Table S1. Muscle fiber size distribution measured by minimum Feret diameter.

TRICEPS (N=3)				
Tukey's multiple comparisons test	**Mean Diff.**	**95.00% CI of diff.**	**Summary**	**Adjusted P Value**
Fiber Class				
5				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	0.01615	-3.437 to 3.470	ns	>0.9999
Sgcd +/+ 1m vs. Sgcd +/+ 2m	0.02874	-3.202 to 3.259	ns	>0.9999
***Sgcd +/+ 1m* vs. Sgcd -/- 2m**	**-4.574**	**-8.028 to -1.121**	**	**0.0044**
Sgcd -/- 1m vs. Sgcd +/+ 2m	0.01259	-3.218 to 3.243	ns	>0.9999
***Sgcd -/- 1m* vs. Sgcd -/- 2m**	**-4.591**	**-8.044 to -1.137**	**	**0.0043**
Sgcd +/+ 2m vs. Sgcd -/- 2m	**-4.603**	**-7.834 to -1.373**	**	**0.0019**
10				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	0.6869	-2.767 to 4.141	ns	0.9539
***Sgcd +/+ 1m* vs. Sgcd +/+ 2m**	**4.458**	**1.227 to 7.688**	**	**0.0028**
***Sgcd +/+ 1m* vs. Sgcd -/- 2m**	**-18.49**	**-21.95 to -15.04**	****	**<0.0001**
***Sgcd -/- 1m* vs. Sgcd +/+ 2m**	**3.771**	**0.5401 to 7.001**	*	**0.0154**
***Sgcd -/- 1m* vs. Sgcd -/- 2m**	**-19.18**	**-22.64 to -15.73**	****	**<0.0001**
Sgcd +/+ 2m vs. Sgcd -/- 2m	**-22.95**	**-26.18 to -19.72**	****	**<0.0001**
15				
Sgcd +/+ 1m* vs. *Sgcd -/- 1m	**4.437**	**0.9837 to 7.891**	**	**0.0061**
***Sgcd +/+ 1m* vs. Sgcd +/+ 2m**	**12.67**	**9.440 to 15.90**	****	**<0.0001**
***Sgcd +/+ 1m* vs. Sgcd -/- 2m**	**5.676**	**2.222 to 9.130**	***	**0.0002**
***Sgcd -/- 1m* vs. Sgcd +/+ 2m**	**8.233**	**5.003 to 11.46**	****	**<0.0001**
Sgcd -/- 1m vs. Sgcd -/- 2m	1.239	-2.215 to 4.692	ns	0.784
Sgcd +/+ 2m vs. Sgcd -/- 2m	**-6.995**	**-10.23 to -3.764**	****	**<0.0001**
20				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	0.2577	-3.196 to 3.711	ns	0.9973
***Sgcd +/+ 1m* vs. Sgcd +/+ 2m**	**9.351**	**6.121 to 12.58**	****	**<0.0001**
***Sgcd +/+ 1m* vs. Sgcd -/- 2m**	**13.04**	**9.584 to 16.49**	****	**<0.0001**
***Sgcd -/- 1m* vs. Sgcd +/+ 2m**	**9.094**	**5.863 to 12.32**	****	**<0.0001**
***Sgcd -/- 1m* vs. Sgcd -/- 2m**	**12.78**	**9.327 to 16.23**	****	**<0.0001**
Sgcd +/+ 2m vs. Sgcd -/- 2m	**3.686**	**0.4559 to 6.917**	*	**0.0187**
25				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	-2.086	-5.540 to 1.367	ns	0.3945
***Sgcd +/+ 1m* vs. Sgcd +/+ 2m**	**4.278**	**1.048 to 7.509**	**	**0.0044**
***Sgcd +/+ 1m* vs. Sgcd -/- 2m**	**10.55**	**7.092 to 14.00**	****	**<0.0001**
***Sgcd -/- 1m* vs. Sgcd +/+ 2m**	**6.364**	**3.134 to 9.595**	****	**<0.0001**
***Sgcd -/- 1m* vs. Sgcd -/- 2m**	**12.63**	**9.178 to 16.09**	****	**<0.0001**
Sgcd +/+ 2m vs. Sgcd -/- 2m	**6.267**	**3.037 to 9.498**	****	**<0.0001**
30				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	-1.277	-4.731 to 2.176	ns	0.7678
Sgcd +/+ 1m vs. Sgcd +/+ 2m	-2.744	-5.975 to 0.4864	ns	0.1247
***Sgcd +/+ 1m* vs. Sgcd -/- 2m**	**4.604**	**1.151 to 8.058**	**	**0.0041**
Sgcd -/- 1m vs. Sgcd +/+ 2m	-1.467	-4.697 to 1.764	ns	0.6357
***Sgcd -/- 1m* vs. Sgcd -/- 2m**	**5.882**	**2.428 to 9.335**	***	**0.0001**
Sgcd +/+ 2m vs. Sgcd -/- 2m	**7.348**	**4.118 to 10.58**	****	**<0.0001**
35				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	-1.936	-5.389 to 1.518	ns	0.4615
***Sgcd +/+ 1m* vs. Sgcd +/+ 2m**	**-9.67**	**-12.90 to -6.440**	****	**<0.0001**
Sgcd +/+ 1m vs. Sgcd -/- 2m	-2.451	-5.904 to 1.003	ns	0.2537
***Sgcd -/- 1m* vs. Sgcd +/+ 2m**	**-7.735**	**-10.97 to -4.504**	****	**<0.0001**
Sgcd -/- 1m vs. Sgcd -/- 2m	-0.515	-3.969 to 2.939	ns	0.9797
Sgcd +/+ 2m vs. Sgcd -/- 2m	**7.22**	**3.989 to 10.45**	****	**<0.0001**
40				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	-0.6148	-4.068 to 2.839	ns	0.9663
***Sgcd +/+ 1m* vs. Sgcd +/+ 2m**	**-9.542**	**-12.77 to -6.312**	****	**<0.0001**
***Sgcd +/+ 1m* vs. Sgcd -/- 2m**	**-3.648**	**-7.101 to -0.1941**	*	**0.0343**
***Sgcd -/- 1m* vs. Sgcd +/+ 2m**	**-8.927**	**-12.16 to -5.697**	****	**<0.0001**
Sgcd -/- 1m vs. Sgcd -/- 2m	-3.033	-6.486 to 0.4207	ns	0.1059
Sgcd +/+ 2m vs. Sgcd -/- 2m	**5.894**	**2.664 to 9.125**	****	**<0.0001**
45				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	0.3795	-3.074 to 3.833	ns	0.9917
***Sgcd +/+ 1m* vs. Sgcd +/+ 2m**	**-6.057**	**-9.288 to -2.827**	****	**<0.0001**
Sgcd +/+ 1m vs. Sgcd -/- 2m	-2.766	-6.219 to 0.6880	ns	0.1622
***Sgcd -/- 1m* vs. Sgcd +/+ 2m**	**-6.437**	**-9.667 to -3.206**	****	**<0.0001**
Sgcd -/- 1m vs. Sgcd -/- 2m	-3.145	-6.599 to 0.3085	ns	0.0875
Sgcd +/+ 2m vs. Sgcd -/- 2m	**3.292**	**0.06135 to 6.522**	*	**0.0441**
50				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	0.1366	-3.317 to 3.590	ns	0.9996
Sgcd +/+ 1m vs. Sgcd +/+ 2m	-2.773	-6.003 to 0.4578	ns	0.1187
Sgcd +/+ 1m vs. Sgcd -/- 2m	-1.931	-5.384 to 1.523	ns	0.4638
Sgcd -/- 1m vs. Sgcd +/+ 2m	-2.909	-6.140 to 0.3212	ns	0.093
Sgcd -/- 1m vs. Sgcd -/- 2m	-2.067	-5.521 to 1.386	ns	0.4026
Sgcd +/+ 2m vs. Sgcd -/- 2m	0.8421	-2.388 to 4.073	ns	0.9036

GASTROCNEMIUS (N=3)				
Tukey's multiple comparisons test	**Mean Diff.**	**95.00% CI of diff.**	**Summary**	**Adjusted P Value**
Fiber Class				
5				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	-1.552	-13.16 to 10.06	ns	0.9851
Sgcd +/+ 1m vs. Sgcd +/+ 2m	0.8815	-10.73 to 12.49	ns	0.9972
Sgcd +/+ 1m vs. Sgcd -/- 2m	-5.534	-17.14 to 6.074	ns	0.5966
Sgcd -/- 1m vs. Sgcd +/+ 2m	2.433	-9.175 to 14.04	ns	0.9463
Sgcd -/- 1m vs. Sgcd -/- 2m	-3.982	-15.59 to 7.625	ns	0.8048
Sgcd +/+ 2m vs. Sgcd -/- 2m	-6.415	-18.02 to 5.192	ns	0.4723
10				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	-9.589	-21.20 to 2.019	ns	0.1413
Sgcd +/+ 1m vs. Sgcd +/+ 2m	-0.4138	-12.02 to 11.19	ns	0.9997
***Sgcd +/+ 1m* vs. Sgcd -/- 2m**	**-29.29**	**-40.90 to -17.68**	****	**<0.0001**
Sgcd -/- 1m vs. Sgcd +/+ 2m	9.175	-2.433 to 20.78	ns	0.1705
***Sgcd -/- 1m* vs. Sgcd -/- 2m**	**-19.7**	**-31.31 to -8.092**	***	**0.0002**
Sgcd +/+ 2m vs. Sgcd -/- 2m	**-28.87**	**-40.48 to -17.27**	****	**<0.0001**
15				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	-2.947	-14.56 to 8.660	ns	0.9095
Sgcd +/+ 1m vs. Sgcd +/+ 2m	8.988	-2.620 to 20.60	ns	0.1851
Sgcd +/+ 1m vs. Sgcd -/- 2m	-8.777	-20.39 to 2.830	ns	0.2026
***Sgcd -/- 1m* vs. Sgcd +/+ 2m**	**11.94**	**0.3277 to 23.54**	*	**0.0415**
Sgcd -/- 1m vs. Sgcd -/- 2m	-5.83	-17.44 to 5.778	ns	0.5544
Sgcd +/+ 2m vs. Sgcd -/- 2m	**-17.77**	**-29.37 to -6.158**	***	**0.0008**
20				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	7.556	-4.052 to 19.16	ns	0.3264
***Sgcd +/+ 1m* vs. Sgcd +/+ 2m**	**24.75**	**13.14 to 36.36**	****	**<0.0001**
***Sgcd +/+ 1m* vs. Sgcd -/- 2m**	**17.8**	**6.196 to 29.41**	***	**0.0007**
***Sgcd -/- 1m* vs. Sgcd +/+ 2m**	**17.19**	**5.587 to 28.80**	**	**0.0012**
Sgcd -/- 1m vs. Sgcd -/- 2m	10.25	-1.359 to 21.86	ns	0.1028
Sgcd +/+ 2m vs. Sgcd -/- 2m	-6.946	-18.55 to 4.661	ns	0.4014
25				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	7.425	-4.183 to 19.03	ns	0.3418
***Sgcd +/+ 1m* vs. Sgcd +/+ 2m**	**16.93**	**5.321 to 28.54**	**	**0.0014**
***Sgcd +/+ 1m* vs. Sgcd -/- 2m**	**20.89**	**9.279 to 32.49**	****	**<0.0001**
Sgcd -/- 1m vs. Sgcd +/+ 2m	9.504	-2.104 to 21.11	ns	0.1469
***Sgcd -/- 1m* vs. Sgcd -/- 2m**	**13.46**	**1.854 to 25.07**	*	**0.0164**
Sgcd +/+ 2m vs. Sgcd -/- 2m	3.957	-7.650 to 15.57	ns	0.8077
30				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	0.7512	-10.86 to 12.36	ns	0.9982
Sgcd +/+ 1m vs. Sgcd +/+ 2m	-6.795	-18.40 to 4.813	ns	0.4211
Sgcd +/+ 1m vs. Sgcd -/- 2m	7.943	-3.665 to 19.55	ns	0.2831
Sgcd -/- 1m vs. Sgcd +/+ 2m	-7.546	-19.15 to 4.062	ns	0.3275
Sgcd -/- 1m vs. Sgcd -/- 2m	7.192	-4.416 to 18.80	ns	0.3702
Sgcd +/+ 2m vs. Sgcd -/- 2m	**14.74**	**3.130 to 26.35**	**	**0.007**
35				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	-1.398	-13.01 to 10.21	ns	0.989
***Sgcd +/+ 1m* vs. Sgcd +/+ 2m**	**-21.45**	**-33.06 to -9.846**	****	**<0.0001**
Sgcd +/+ 1m vs. Sgcd -/- 2m	0.4211	-11.19 to 12.03	ns	0.9997
***Sgcd -/- 1m* vs. Sgcd +/+ 2m**	**-20.06**	**-31.66 to -8.448**	***	**0.0001**
Sgcd -/- 1m vs. Sgcd -/- 2m	1.819	-9.788 to 13.43	ns	0.9764
Sgcd +/+ 2m vs. Sgcd -/- 2m	**21.87**	**10.27 to 33.48**	****	**<0.0001**
40				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	-0.4981	-12.11 to 11.11	ns	0.9995
***Sgcd +/+ 1m* vs. Sgcd +/+ 2m**	**-16.3**	**-27.91 to -4.697**	**	**0.0023**
Sgcd +/+ 1m vs. Sgcd -/- 2m	-2.024	-13.63 to 9.584	ns	0.968
***Sgcd -/- 1m* vs. Sgcd +/+ 2m**	**-15.81**	**-27.41 to -4.199**	**	**0.0033**
Sgcd -/- 1m vs. Sgcd -/- 2m	-1.526	-13.13 to 10.08	ns	0.9858
Sgcd +/+ 2m vs. Sgcd -/- 2m	**14.28**	**2.673 to 25.89**	**	**0.0096**
45				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	0.1001	-11.51 to 11.71	ns	>0.9999
Sgcd +/+ 1m vs. Sgcd +/+ 2m	-5.389	-17.00 to 6.218	ns	0.6172
Sgcd +/+ 1m vs. Sgcd -/- 2m	-1.096	-12.70 to 10.51	ns	0.9946
Sgcd -/- 1m vs. Sgcd +/+ 2m	-5.489	-17.10 to 6.118	ns	0.603
Sgcd -/- 1m vs. Sgcd -/- 2m	-1.196	-12.80 to 10.41	ns	0.993
Sgcd +/+ 2m vs. Sgcd -/- 2m	4.293	-7.314 to 15.90	ns	0.7666
50				
Sgcd +/+ 1m vs. *Sgcd -/- 1m*	0.1523	-11.46 to 11.76	ns	>0.9999
Sgcd +/+ 1m vs. Sgcd +/+ 2m	-1.192	-12.80 to 10.42	ns	0.9931
Sgcd +/+ 1m vs. Sgcd -/- 2m	-0.3342	-11.94 to 11.27	ns	0.9998
Sgcd -/- 1m vs. Sgcd +/+ 2m	-1.344	-12.95 to 10.26	ns	0.9902
Sgcd -/- 1m vs. Sgcd -/- 2m	-0.4865	-12.09 to 11.12	ns	0.9995
Sgcd +/+ 2m vs. Sgcd -/- 2m	0.8576	-10.75 to 12.47	ns	0.9974

DIAPHRAGM (N=3)				
Tukey's multiple comparisons test	**Mean Diff.**	**95.00% CI of diff.**	**Summary**	**Adjusted P Value**
Fiber Class				
5				
1m Sgcd$^{+/+}$ vs. *1m Sgcd*$^{-/-}$	0.6538	-6.409 to 7.716	ns	0.9949
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{+/+}$	2.508	-4.555 to 9.570	ns	0.7879
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	2.399	-4.663 to 9.461	ns	0.8094
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{+/+}$	1.854	-5.208 to 8.916	ns	0.9011
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{-/-}$	1.745	-5.317 to 8.807	ns	0.9158
2m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	-0.1089	-7.171 to 6.953	ns	>0.9999
10				
1m Sgcd$^{+/+}$ vs. *1m Sgcd*$^{-/-}$	-0.8607	-7.923 to 6.202	ns	0.9886
***1m Sgcd*$^{+/+}$ vs. *2m Sgcd*$^{+/+}$**	**13.24**	**6.179 to 20.30**	****	**<0.0001**
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	-4.399	-11.46 to 2.663	ns	0.3654
***1m Sgcd*$^{-/-}$ vs. *2m Sgcd*$^{+/+}$**	**14.1**	**7.040 to 21.16**	****	**<0.0001**
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{-/-}$	-3.539	-10.60 to 3.524	ns	0.5564
***2m Sgcd*$^{+/+}$ vs. *2m Sgcd*$^{-/-}$**	**-17.64**	**-24.70 to -10.58**	****	**<0.0001**
15				
1m Sgcd$^{+/+}$ vs. *1m Sgcd*$^{-/-}$	-6.14	-13.20 to 0.9221	ns	0.1111
***1m Sgcd*$^{+/+}$ vs. *2m Sgcd*$^{+/+}$**	**20.23**	**13.17 to 27.29**	****	**<0.0001**
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	-0.004494	-7.067 to 7.058	ns	>0.9999
***1m Sgcd*$^{-/-}$ vs. *2m Sgcd*$^{+/+}$**	**26.37**	**19.31 to 33.43**	****	**<0.0001**
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{-/-}$	6.136	-0.9266 to 13.20	ns	0.1115
***2m Sgcd*$^{+/+}$ vs. *2m Sgcd*$^{-/-}$**	**-20.23**	**-27.29 to -13.17**	****	**<0.0001**
20				
1m Sgcd$^{+/+}$ vs. *1m Sgcd*$^{-/-}$	2.148	-4.914 to 9.210	ns	0.8551
***1m Sgcd*$^{+/+}$ vs. *2m Sgcd*$^{+/+}$**	**7.887**	**0.8246 to 14.95**	*	**0.0224**
***1m Sgcd*$^{+/+}$ vs. *2m Sgcd*$^{-/-}$**	**9.312**	**2.249 to 16.37**	**	**0.0047**
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{+/+}$	5.739	-1.323 to 12.80	ns	0.1518
***1m Sgcd*$^{-/-}$ vs. *2m Sgcd*$^{-/-}$**	**7.164**	**0.1013 to 14.23**	*	**0.0455**
2m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	1.425	-5.638 to 8.487	ns	0.9517
25				
1m Sgcd$^{+/+}$ vs. *1m Sgcd*$^{-/-}$	2.724	-4.338 to 9.786	ns	0.7429
***1m Sgcd*$^{+/+}$ vs. *2m Sgcd*$^{+/+}$**	**-18.99**	**-26.05 to -11.93**	****	**<0.0001**
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	1.328	-5.734 to 8.391	ns	0.9603
***1m Sgcd*$^{-/-}$ vs. *2m Sgcd*$^{+/+}$**	**-21.71**	**-28.78 to -14.65**	****	**<0.0001**
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{-/-}$	-1.396	-8.458 to 5.667	ns	0.9544
***2m Sgcd*$^{+/+}$ vs. *2m Sgcd*$^{-/-}$**	**20.32**	**13.26 to 27.38**	****	**<0.0001**
30				
1m Sgcd$^{+/+}$ vs. *1m Sgcd*$^{-/-}$	0.7861	-6.276 to 7.848	ns	0.9913
***1m Sgcd*$^{+/+}$ vs. *2m Sgcd*$^{+/+}$**	**-18.13**	**-25.20 to -11.07**	****	**<0.0001**
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	-3.295	-10.36 to 3.767	ns	0.6134
***1m Sgcd*$^{-/-}$ vs. *2m Sgcd*$^{+/+}$**	**-18.92**	**-25.98 to -11.86**	****	**<0.0001**
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{-/-}$	-4.081	-11.14 to 2.981	ns	0.4326
***2m Sgcd*$^{+/+}$ vs. *2m Sgcd*$^{-/-}$**	**14.84**	**7.775 to 21.90**	****	**<0.0001**
35				
1m Sgcd$^{+/+}$ vs. *1m Sgcd*$^{-/-}$	0.3144	-6.748 to 7.377	ns	0.9994
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{+/+}$	-4.809	-11.87 to 2.254	ns	0.2873
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	-2.587	-9.650 to 4.475	ns	0.7717
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{+/+}$	-5.123	-12.19 to 1.939	ns	0.2349
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{-/-}$	-2.902	-9.964 to 4.161	ns	0.7038
2m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	2.221	-4.841 to 9.284	ns	0.8423
40				
1m Sgcd$^{+/+}$ vs. *1m Sgcd*$^{-/-}$	0.1507	-6.912 to 7.213	ns	>0.9999
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{+/+}$	-1.484	-8.547 to 5.578	ns	0.9459
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	-1.014	-8.076 to 6.048	ns	0.9816
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{+/+}$	-1.635	-8.697 to 5.427	ns	0.9294
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{-/-}$	-1.165	-8.227 to 5.898	ns	0.9727
2m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	0.4703	-6.592 to 7.533	ns	0.9981
45				
1m Sgcd$^{+/+}$ vs. *1m Sgcd*$^{-/-}$	0.1398	-6.923 to 7.202	ns	>0.9999
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{+/+}$	-0.4237	-7.486 to 6.639	ns	0.9986
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	-0.7768	-7.839 to 6.286	ns	0.9916
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{+/+}$	-0.5634	-7.626 to 6.499	ns	0.9967
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{-/-}$	-0.9166	-7.979 to 6.146	ns	0.9863
2m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	-0.3531	-7.415 to 6.709	ns	0.9992
50				
1m Sgcd$^{+/+}$ vs. *1m Sgcd*$^{-/-}$	0.08409	-6.978 to 7.146	ns	>0.9999
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{+/+}$	-0.0252	-7.088 to 7.037	ns	>0.9999
1m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	-0.9614	-8.024 to 6.101	ns	0.9843
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{+/+}$	-0.1093	-7.172 to 6.953	ns	>0.9999
1m Sgcd$^{-/-}$ vs. *2m Sgcd*$^{-/-}$	-1.046	-8.108 to 6.017	ns	0.98
2m Sgcd$^{+/+}$ vs. *2m Sgcd*$^{-/-}$	-0.9363	-7.999 to 6.126	ns	0.9854

Table S2. List of antibodies used for Western Blotting ([1]) and Indirect Immunofluorescence ([2]); Horseradish peroxidase (HRP).

Antibody	**Host**	**Code**	**Source**
CCN2/CTGF[1]	Rabbit	sc-365970	Santa Cruz
CD11b[2]	Rat	101201	Biolegend
CD44[2]	Rat	553131	BD Pharmingen
Myosin heavy chain (embryonic) [1, 2]	Mouse	F1.652	DSHB
Fibronectin[1, 2]	Rabbit	F3648	Sigma-Aldrich
GAPDH[1]	Mouse	60004-1-Ig	Proteintech
Laminin[2]	Rat	L0663	Sigma-Aldrich
PDGFRα[1]	Goat	AF1062	R&D Systems
Periostin[1]	Mouse	sc-398631	Santa Cruz
YAP/TAZ[1]	Rabbit	8418S	Cell Signaling
Anti-Mouse IgG (H+L) Secondary Antibody, HRP[1]	Goat	31430	Invitrogen
Anti-Goat IgG F(ab')2 Secondary Antibody, HRP[1]	Rabbit	31403	Invitrogen
Anti-Rabbit IgG (H+L) Secondary Antibody, HRP[1]	Goat	31460	Invitrogen
Anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 568[2]	Goat	A-11004	Invitrogen
Anti-Rat IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 568[2]	Goat	A-11077	Invitrogen
Anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 568[2]	Donkey	A-10042	Invitrogen

Table S3. Forward and reverse primer sequences for the genes under assessment by RT-qPCR.

Gene	Forward sequence (5' → 3')	Reverse sequence (5' → 3')
18s	TGACGGAAGGGCACCACCAG	CACCACCACCCACGGAATCG
Gapdh	CGTCCCGTAGACAAAATGGT	TCAATGAAGGGGTCGTTGAT
Myh3 (eMHC)	AACAGAAACGCAATGCTGAGG	CAGCTCTCTGATCCGTGTCTC
Il1b	AACCTGCTGGTGTGTGACGTTC	CAGCACGAGGCTTTTTTGTTGT
Tnfa (TNF-α)	ACTGAACTTCGGGGTGATTG	GCTTGGTGGTTTGCTACGAC
Il6	ACAACCACGGCCTTCCCTACTT	CACGATTTCCCAGAGAACATGTG
Ptprc (CD45)	ATCCCATTGAAAGTGGATTCAGTT	AGCACTCTTACATACGCTTATCTATA
Ly6c1	ACCCTTCTCTGAGGATGGACA	TTGGCACTCCATAGCACTCG
Mrc1 (CD206)	CCATTTATCATTCCCTCAGCAAGC	AAATGTCACTGGGGTTCCATCACT
Enpp2 (ATX)	GACCCTAAAGCCATTATTGCTAA	GGGAAGGTGCTGTTTCATGT
Lpar1	CTGCCTCTACTTCCAGCCCTGTAA	TGCTCACTGTGTTCCATTCTGTGG
Lpar2	GCTGGTTATTGCAGCCATCG	ACTCCACGCTGGCTGTATATG
Lpar3	CCACTTTCCCTTCTACTACCTGCT	GACGGTCAACGTTTTCGACACC
Lpar4	GTCAACAATGCGACCACCAC	AAGCACCACAGAAGAACAAGAAACA
Lpar5	ACTCCACGCTGGCTGTATATG	GTAGCCAAAGGCCTGGTATCC
Lpar6	GATCACTCTCTGCATCGCTGTTTC	CCCTGAACTTCAGAGAACCTGGAG
Fn1 (Fibronectin)	AGATTGGCGACAAGTGGAGG	AGGTTTGCAGGTCCATTCCC
Ccn2 (CTGF)	CAGGCTGGAGAAGCAGAGTGCT	CTGGTGCAGCCAGAAAGCTCAA
Col1a1 (Collagen 1)	GGTATGCTTGATCTGTATCTGC	AGTCCAGTTCTTCATTGCATT
Col3a1 (Collagen 3)	AGCACCTGTTTCTCCCTTT	CTGGTATGAAAGGACACAGAG
Postn (Periostin)	ATCAGGGGTCGGGATCAGG	TTCCCGCAGATAGCACCTTG
Pdgfra	GACGAGTGTCCTTCGCCAAAGTG	CAAAATCCGACCAAGCACGAGG
Ccn1	TAAGGTCTGCGCTAAACAACTC	CAGATCCCTTTCAGAGCGGT
Tagln2	AGCAGATCCTCATCCAGTGG	CCATCTGCTTGAAGGCCATC
Ankrd1	GGATGTGCCGAGGTTTCTGAA	GTCCGTTTATACTCATCGCAGAC