

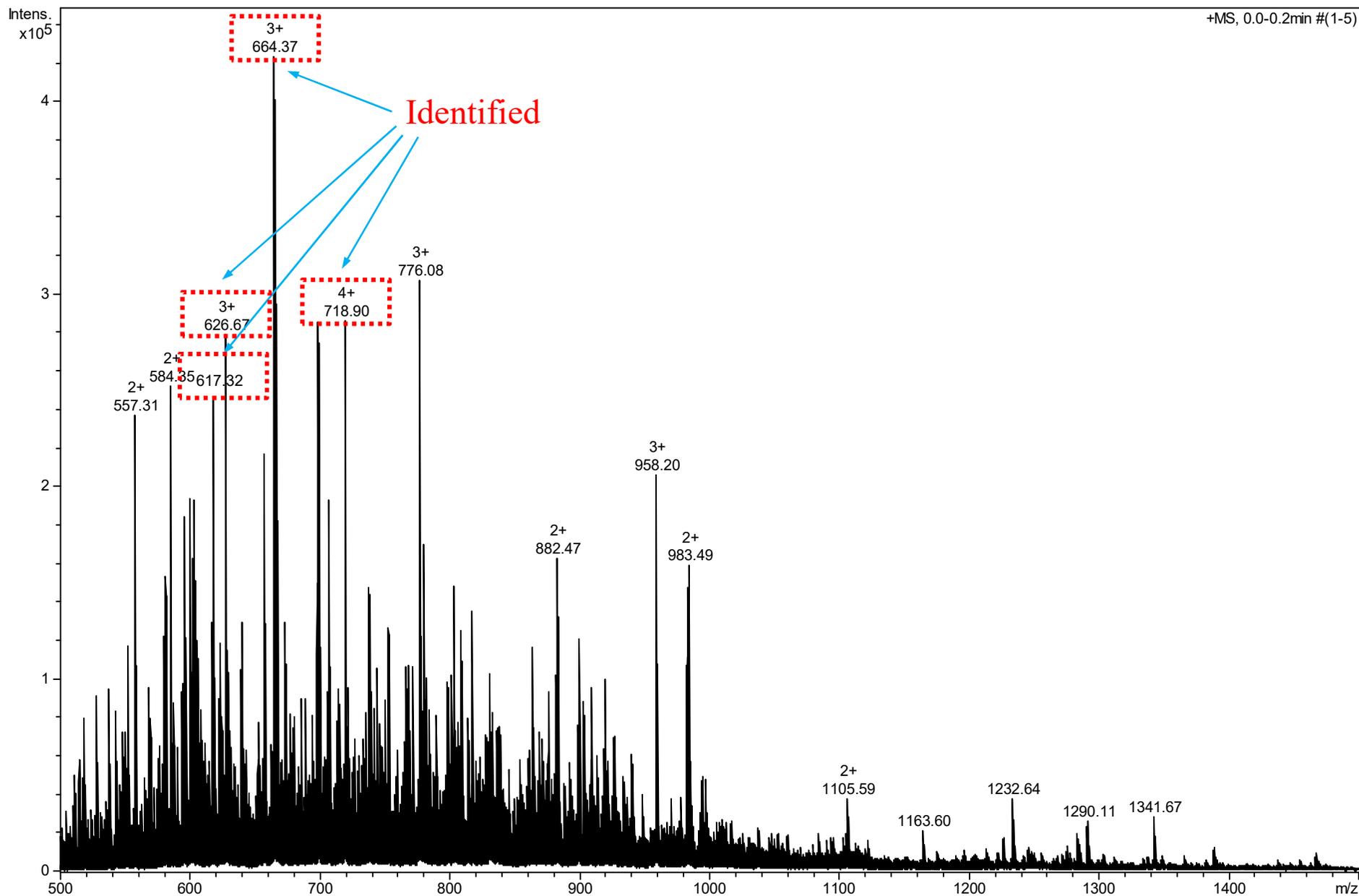
**STIM2 regulates both intracellular  $\text{Ca}^{2+}$  distribution  
and  $\text{Ca}^{2+}$  movement in skeletal myotubes**

**Mi Ri Oh, Keon Jin Lee, Mei Huang, Jin Ock Kim, Do Han Kim, Chung-Hyun Cho, and Eun Hui Lee**

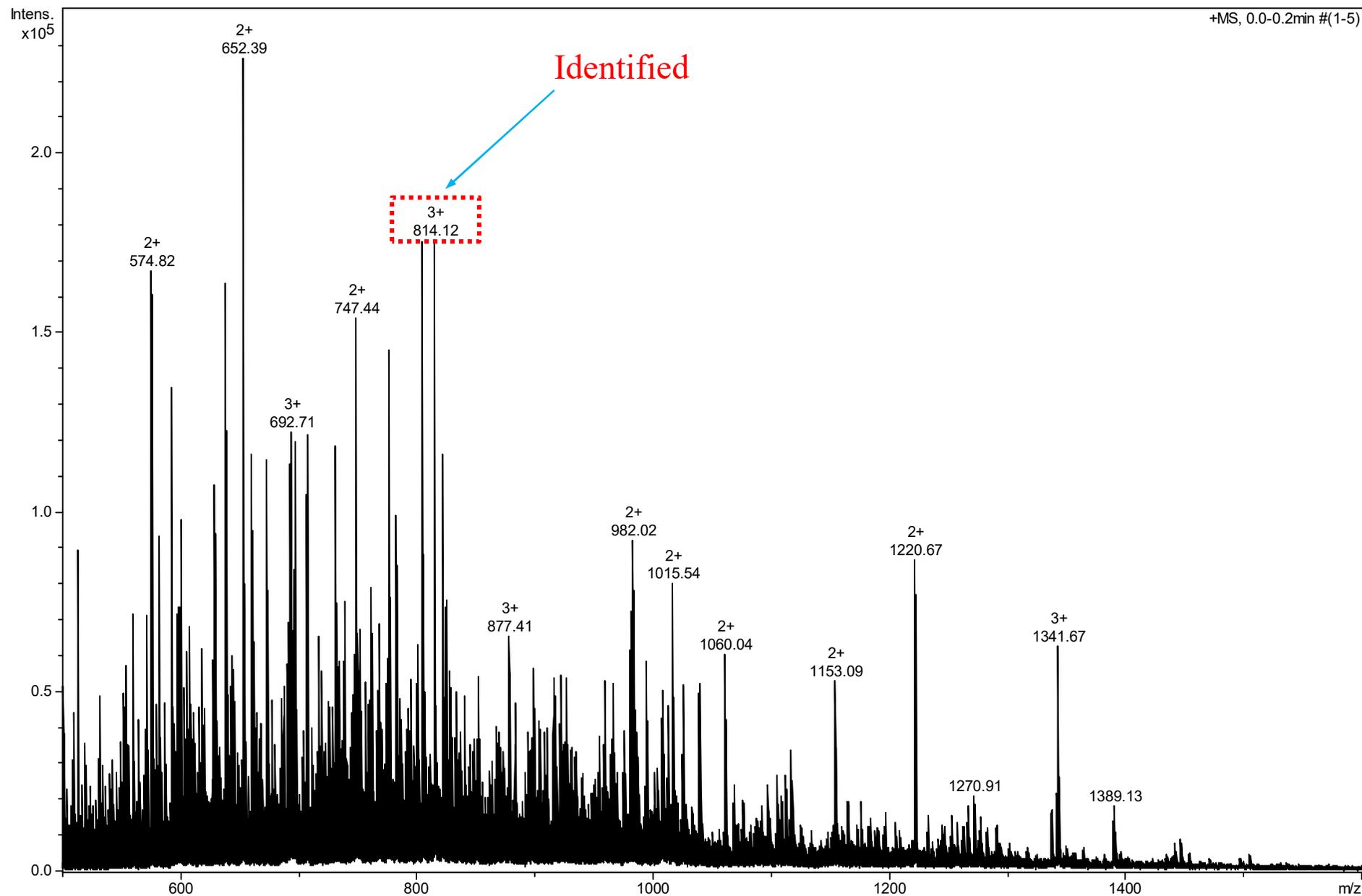
**(SREP-17-38455)**

# Supplementary Figure 1. MS spectrums for bands 1 to 7 in Figure 1c and Table 1

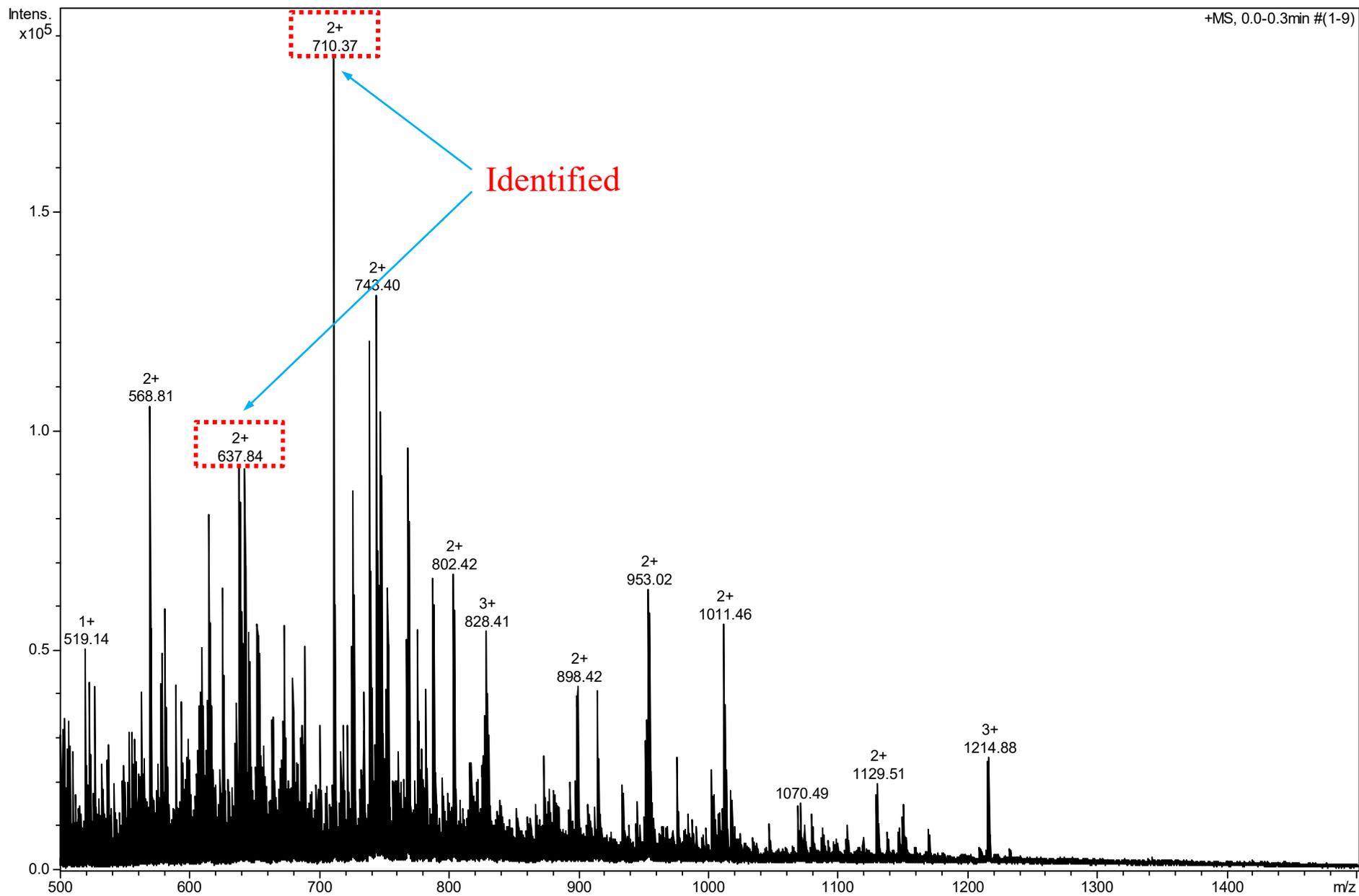
(a) MS spectrum of the band #1 in Figure 1c and Table 1.



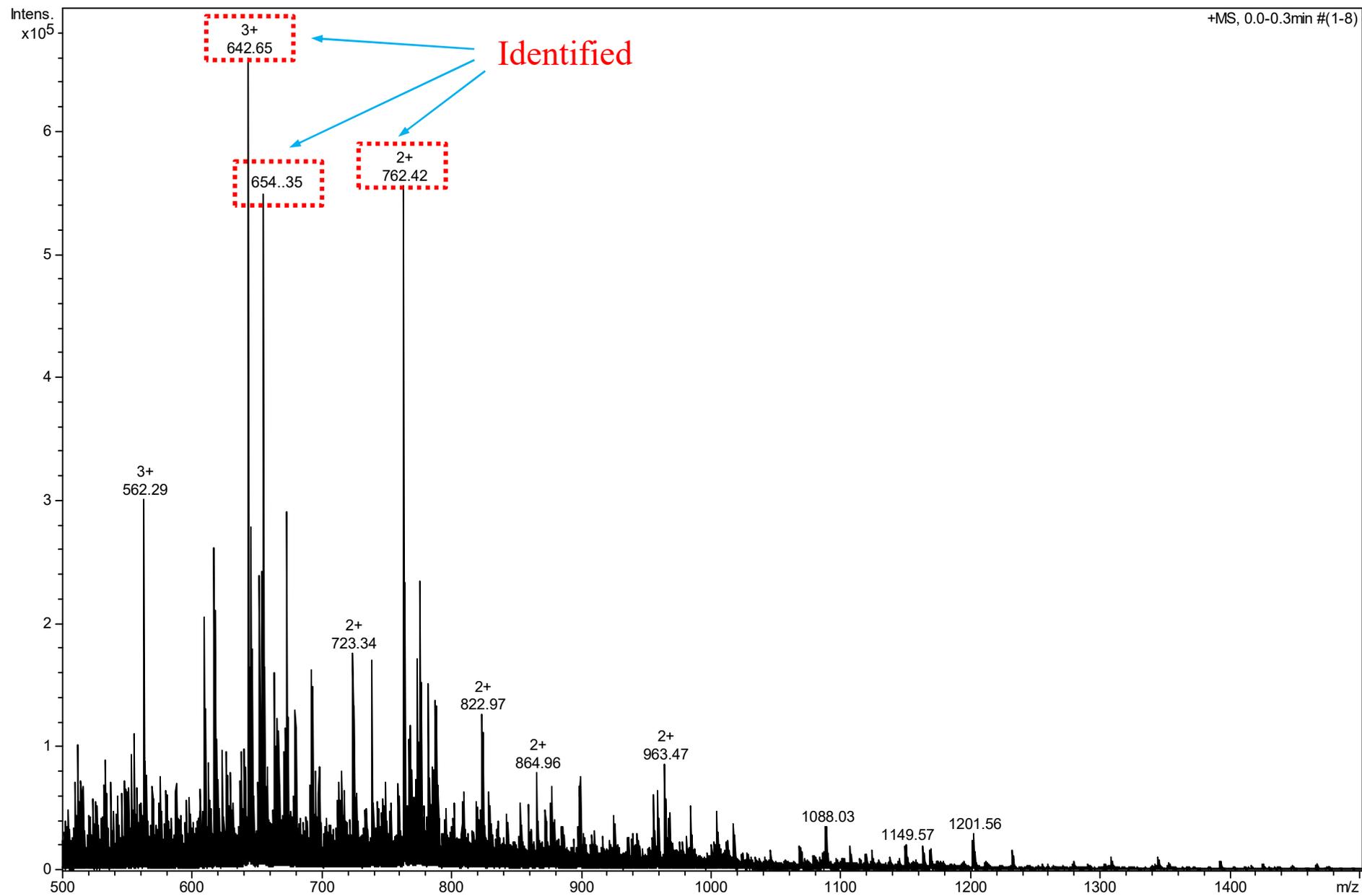
(b) MS spectrum of the band #2 in Figure 1c and Table 1.



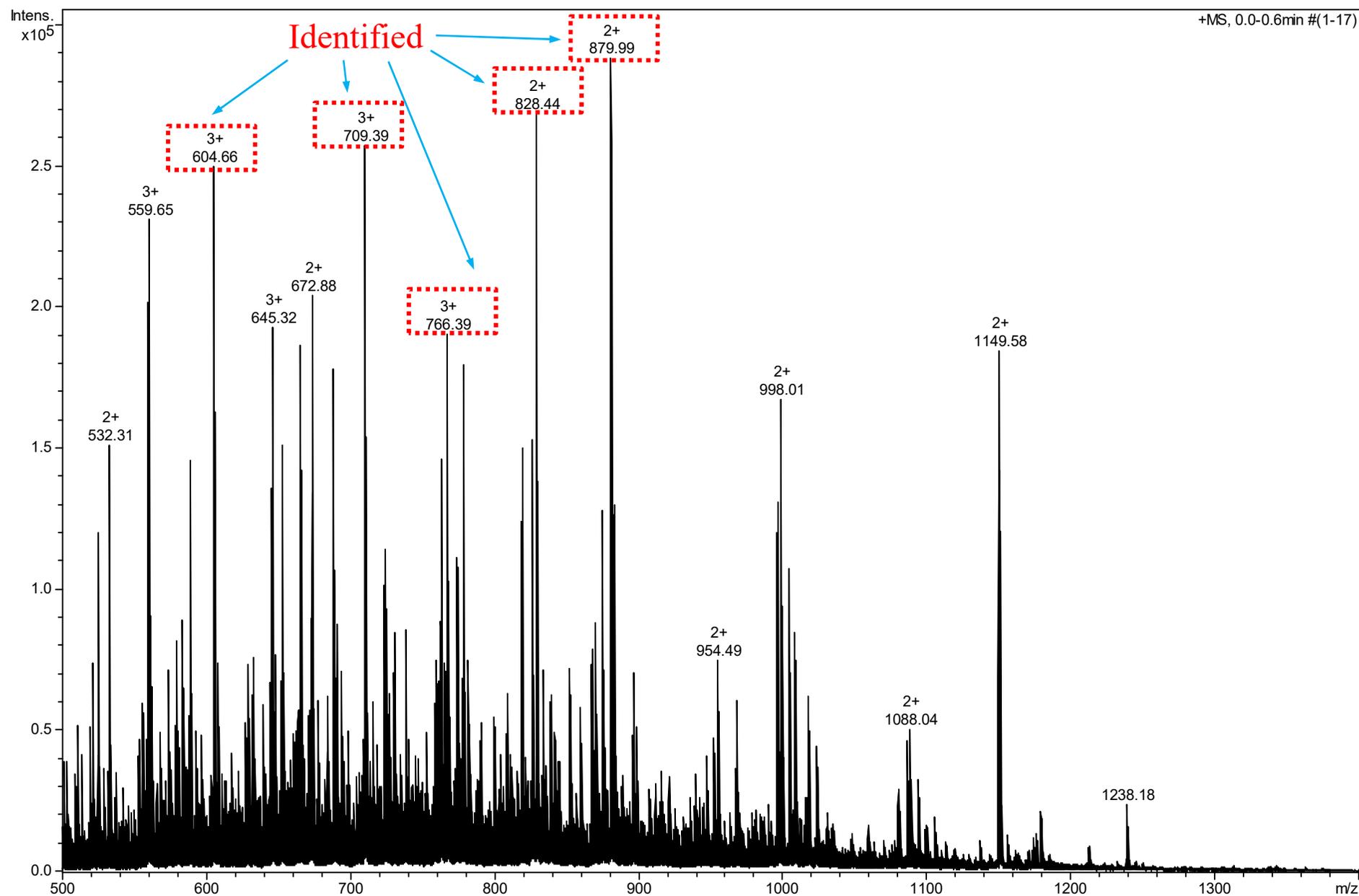
(c) MS spectrum of the band #3 in Figure 1c and Table 1.



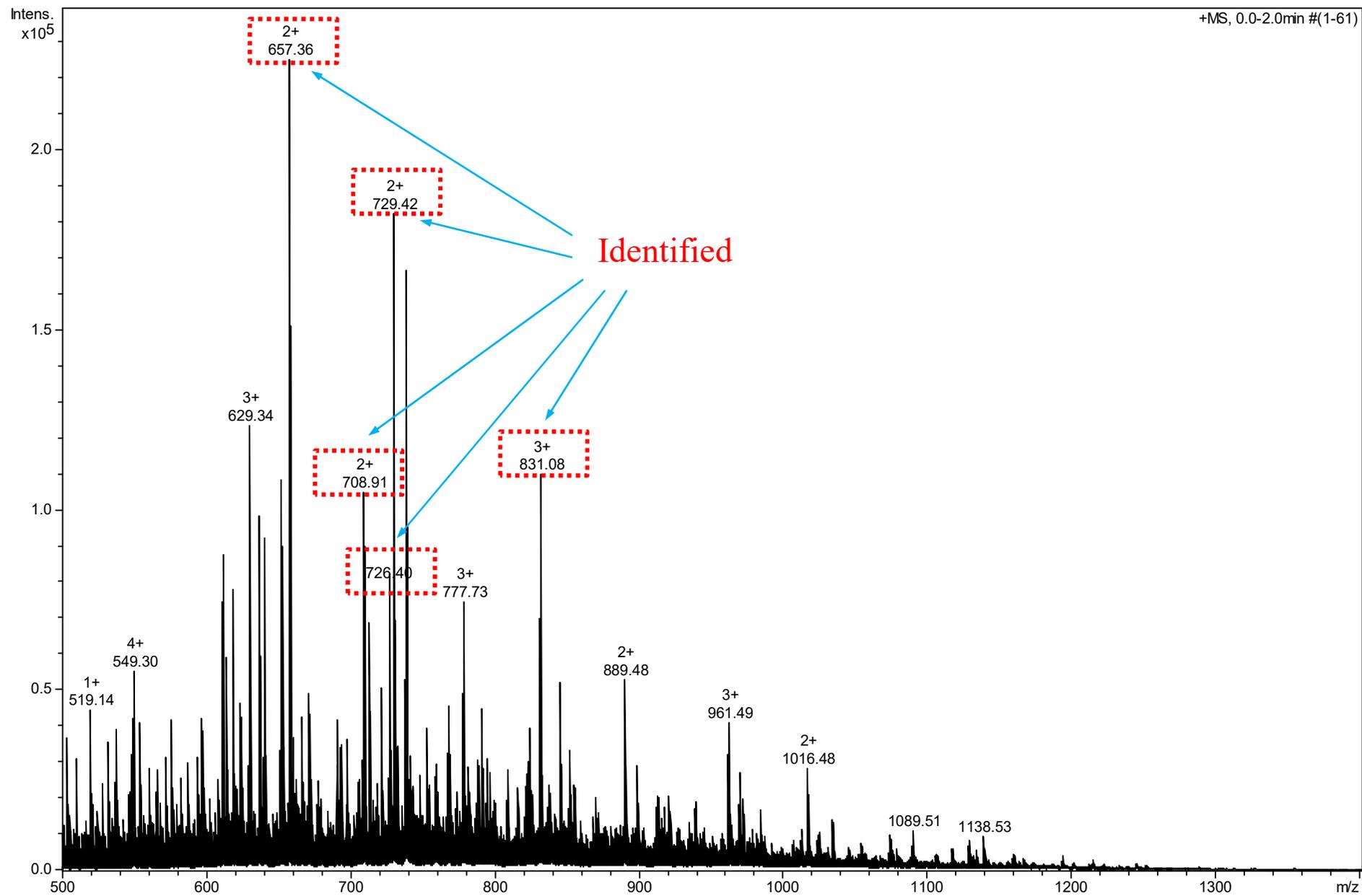
(d) MS spectrum of the band #4 in Figure 1c and Table 1.



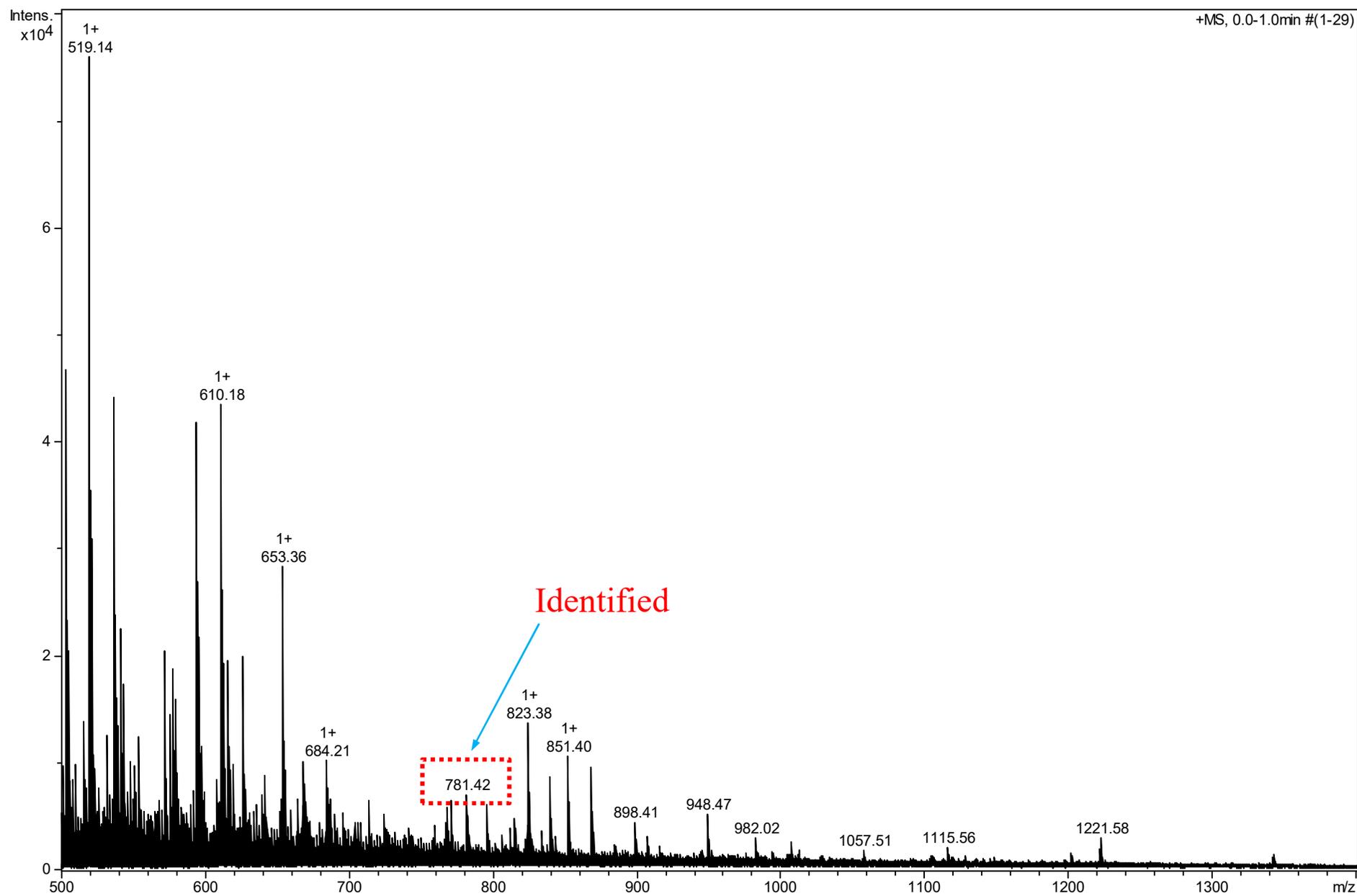
(e) MS spectrum of the band #5 in Figure 1c and Table 1.



(f) MS spectrum of the band #6 in Figure 1c and Table 1.



(g) MS spectrum of the band #7 in Figure 1c and Table 1.





# Supplementary Figure 2 (continued)

**b**



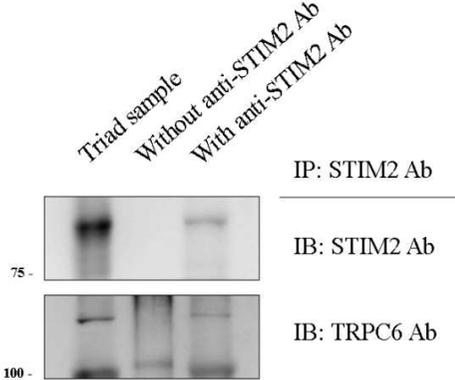
**c**

Phosphorable amino acid	PhosphoSVM		GPS 3.0		NetPhos 3.1	
	STIM1	STIM2	STIM1	STIM2	STIM1	STIM2
S	15	7	12	10	22	23
T	3	3	1	5	3	3
Y	0	2	0	1	0	2

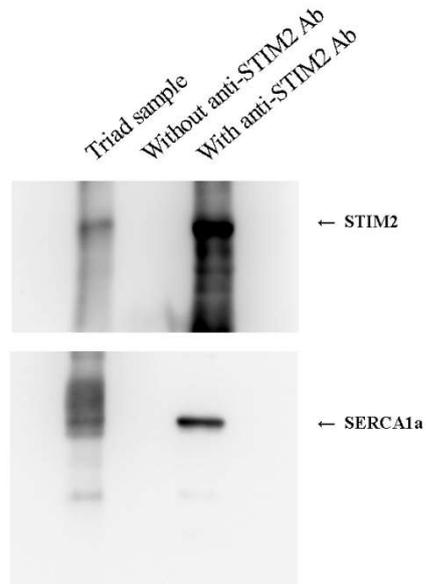
# Supplementary Figure 3

## Co-immunoprecipitation of STIM2 with TRPC6

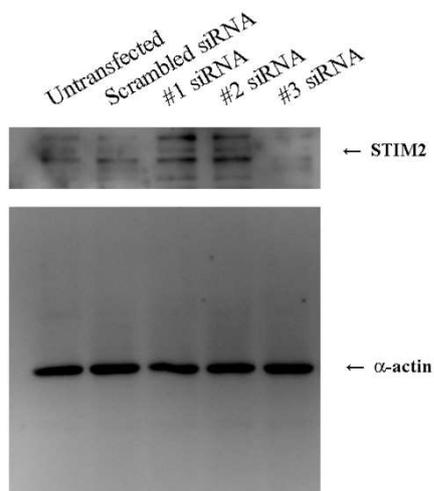
The triad sample obtained from rabbit skeletal muscle (30 µg of total proteins) was subjected to a co-immunoprecipitation assay with anti-STIM2 antibody, and the immunoprecipitant was subjected to immunoblot analysis with anti-STIM2 or anti-TRPC6 antibodies. Triad sample indicates the simple immunoblot of the triad sample. Without Ab indicates a reaction without anti-STIM2 antibody. IB, IP, or Ab means immunoblot, immunoprecipitation, or antibody, respectively. TRPC6 was co-immunoprecipitated with STIM2.



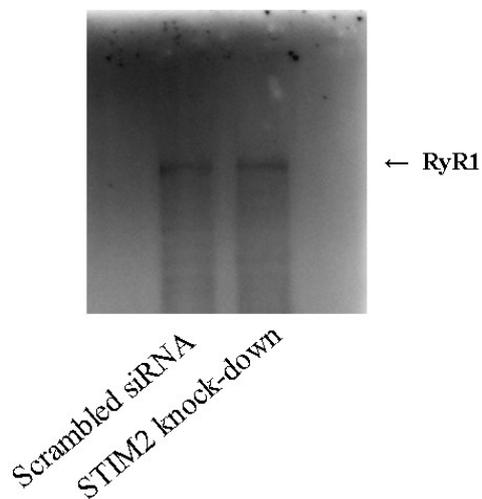
**Supplementary Figure 4.** The full-length blots for STIM2 and SERCA1a in Figure 1d.



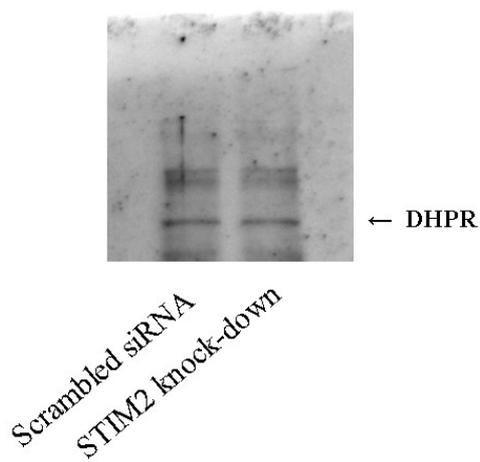
**Supplementary Figure 5.** The full-length blots for STIM2 and  $\alpha$ -actin in Figure 2a.



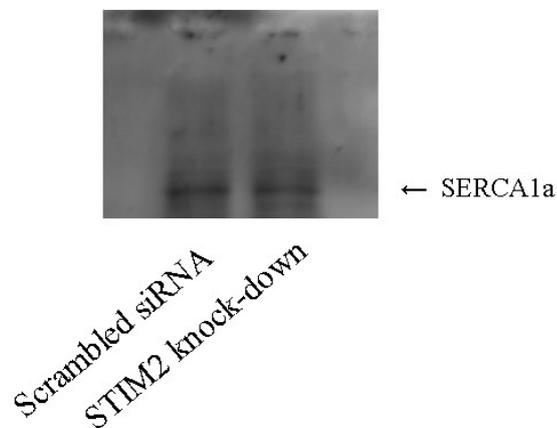
**Supplementary Figure 6.** The full-length blot for RyR1 in Figure 6a.



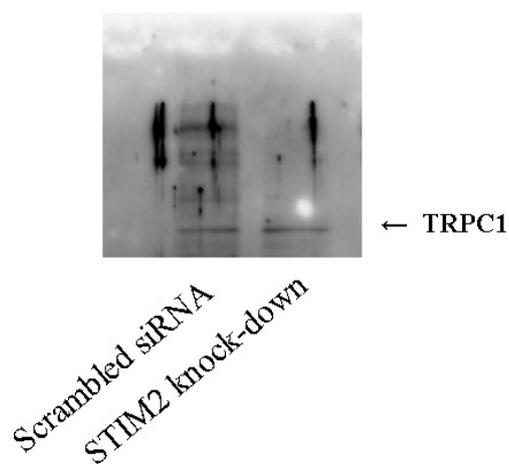
**Supplementary Figure 7.** The full-length blot for DHPR in Figure 6a.



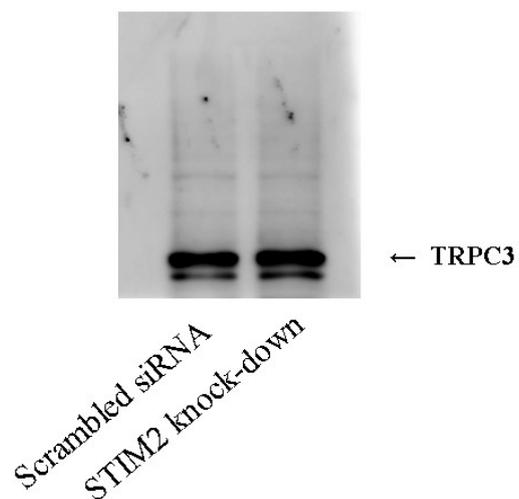
**Supplementary Figure 8.** The full-length blot for SERCA1a in Figure 6a.



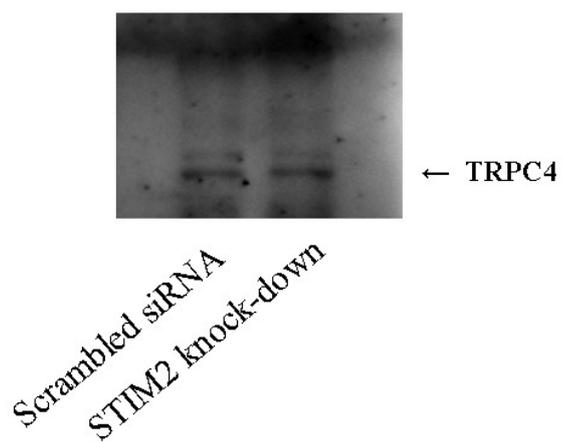
**Supplementary Figure 9.** The full-length blot for TRPC1 in Figure 6a.



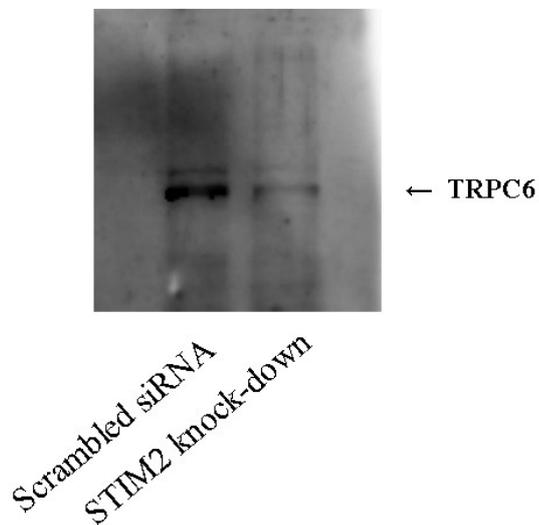
**Supplementary Figure 10.** The full-length blot for TRPC3 in Figure 6a.



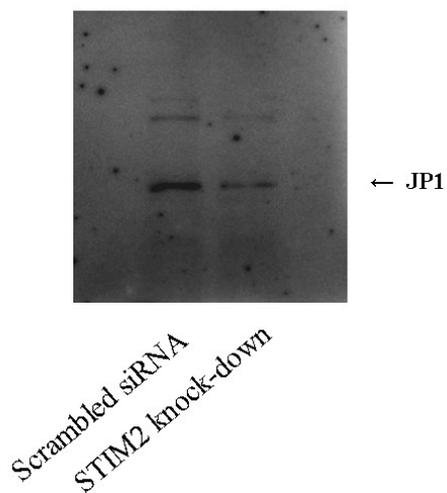
**Supplementary Figure 11.** The full-length blot for TRPC4 in Figure 6a.



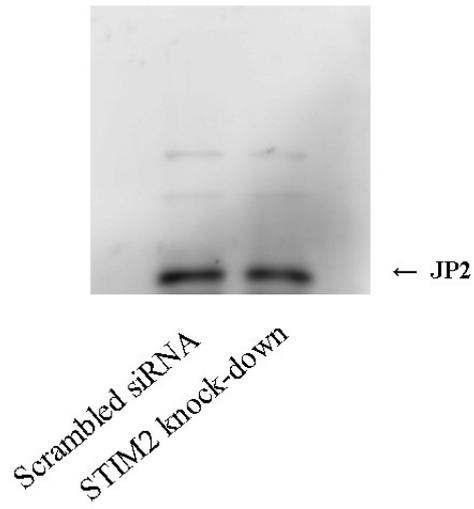
**Supplementary Figure 12.** The full-length blot for TRPC6 in Figure 6a.



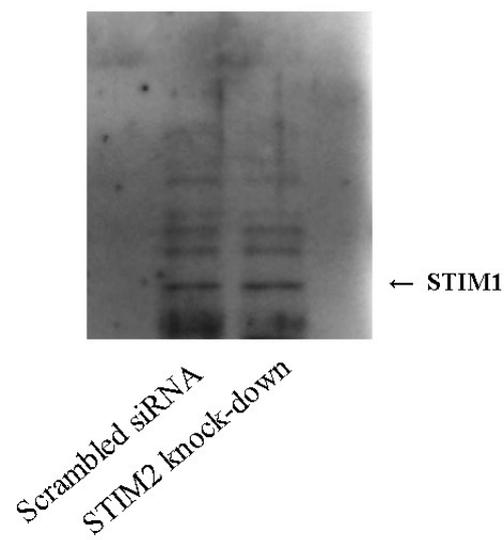
**Supplementary Figure 13.** The full-length blot for JP1 in Figure 6a.



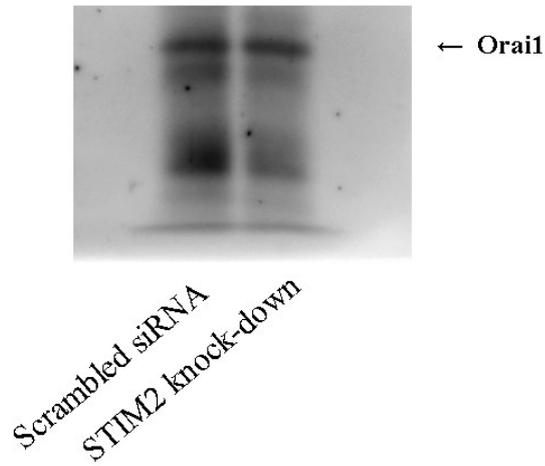
**Supplementary Figure 14.** The full-length blot for JP2 in Figure 6a.



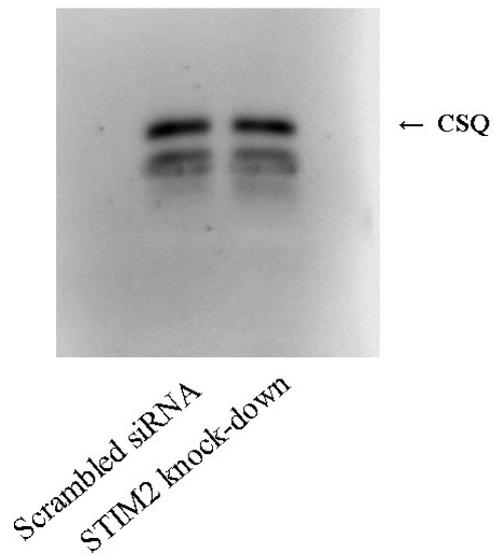
**Supplementary Figure 15.** The full-length blot for STIM1 in Figure 6a.



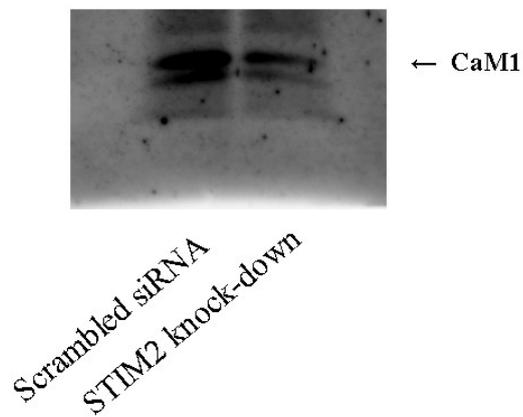
**Supplementary Figure 16.** The full-length blot for Orai1 in Figure 6a.



**Supplementary Figure 17.** The full-length blot for CSQ in Figure 6a.



**Supplementary Figure 18.** The full-length blot for CaM1 in Figure 6a.



**Supplementary Figure 19.** The full-length blot for  $\alpha$ -actin in Figure 6a.

