RYRM1 Distribution Box

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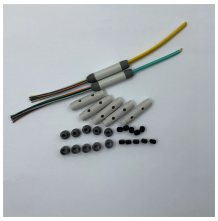
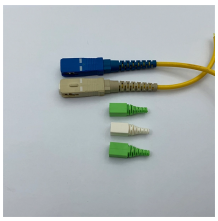
	One key target of the S100A1 interactome is the ryanodine receptor (RyR), a huge homotetrameric Ca 2+ release channel (~2.3 MDa) of the sarcoplasmic reticulum. Here, we report ...
	Click on a disease name to see all genes associated with that disease. Blue squares indicate phenotypes directly attributed to mutations/alleles of this gene. Click cells to view annotations.
	RYR1 encodes the type 1 ryanodine receptor, an intracellular calcium release channel (RyR1) on the skeletal muscle sarcoplasmic reticulum (SR). Pathogenic RYR1 variations can destabilize...
	Here, we combined functional studies and molecular dynamics (MD) simulations of RYR1 bearing disease-associated mutations at the N-terminal region. When expressed in HEK293 cells, the mutant ...
	Here, we report the structure of RyR1 from native SR membranes in closed and open states.

In humans the gene for RYR1 is located on chromosome 19q13.2 and spans 104 exons. The RYR2 gene is located on chromosome 1q43 and spans 102 exons, and the RYR3 gene is located on ...

We addressed the structure of skeletal (RyR1) and cardiac (RyR2) isoforms relevant to gating by Ca 2+ and Mg 2+ ions (M 2+). Bioinformatics analysis of RyR structures ascertained the ...



Our results reveal the importance of interdomain interactions within the NTD in the regulation of the RYR1 channel and provide insights into the mechanism of MH caused by the ...

Our results demonstrate that S0 is an essential component of RyR1 and plays a key role in the physiological regulation of RyR1 channel gating.

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Our results demonstrate that S0 is an essential component of RyR1 and plays a key role in the physiological regulation of RyR1 channel gating.

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