

Product datasheet for **SC332058**

Ryanodine Receptor 3 (RYR3) (NM_001243996) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ryanodine Receptor 3 (RYR3) (NM_001243996) Human Untagged Clone
Tag: Tag Free
Symbol: RYR3
Synonyms: RYR-3
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332058 representing NM_001243996.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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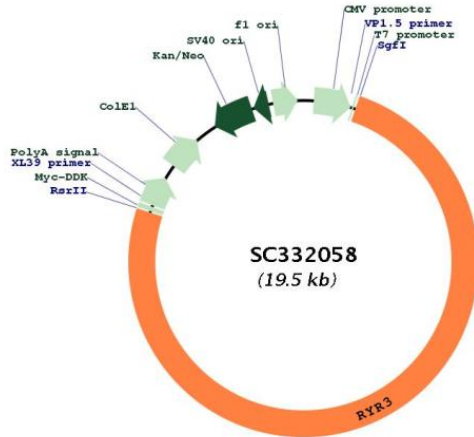
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Restriction Sites:

SgfI-RsrII

Plasmid Map:



ACCN: NM_001243996

Insert Size: 14598 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001243996.1](#)

RefSeq Size: 15548 bp

RefSeq ORF: 14598 bp

Locus ID: 6263

UniProt ID: [Q15413](#)

Cytogenetics: 15q13.3-q14

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Alzheimer's disease, Calcium signaling pathway

MW: 551.5 kDa

Gene Summary: The protein encoded by this gene is a ryanodine receptor, which functions to release calcium from intracellular storage for use in many cellular processes. For example, the encoded protein is involved in skeletal muscle contraction by releasing calcium from the sarcoplasmic reticulum followed by depolarization of T-tubules. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]
Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region compared to variant 1. The resulting isoform (2) is shorter than isoform 1.