

Product datasheet for **RC235413**

Ryanodine Receptor 3 (RYR3) (NM_001243996) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ryanodine Receptor 3 (RYR3) (NM_001243996) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RYR3
Synonyms:	RYR-3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235413 representing NM_001243996 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC235413 representing NM_001243996
 Red=Cloning site Green=Tags(s)

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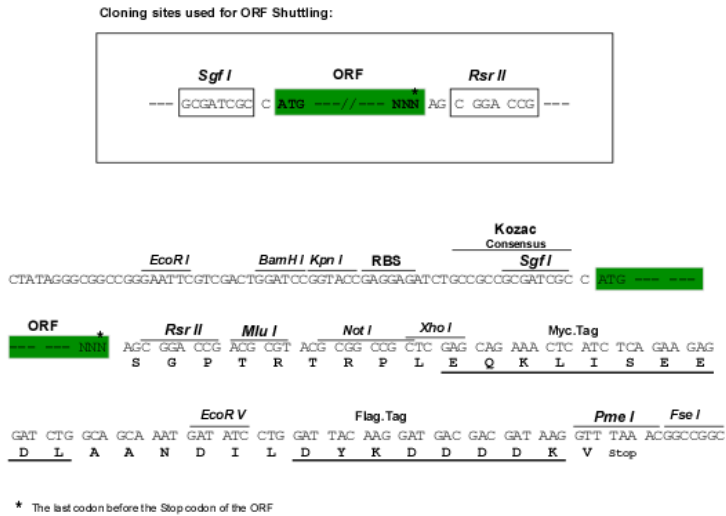
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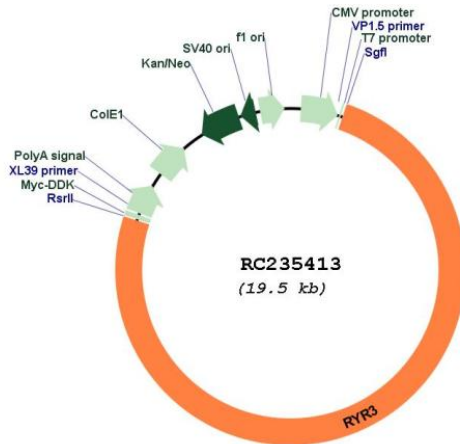
Restriction Sites:

SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001243996

ORF Size:

14595 bp

OTI Disclaimer:	<p>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.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none"> 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_001243996.3
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:	551.9 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]