

Product datasheet for **RG205398**

Calreticulin 3 (CALR3) (NM_145046) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calreticulin 3 (CALR3) (NM_145046) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CALR3
Synonyms:	CMH19; CRT2; CT93
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205398 representing NM_145046 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCGGGCTTTGGTCCAGTTCTGGCCATATGCATGCTGCGAGTGGCGCTGGCTACCGTCTATTTCC
AAGAGGAATTTCTAGACGGAGAGCATTGGAGAAACCGATGGTTGCAGTCCACCAATGACTCCCGATTTGG
GCATTTTAGACTTTCGTCGGCAAGTTTTATGGTCATAAAGAGAAAGATAAAGGTCTGCAAACCACTCAG
AATGGCCGATTCTATGCCATCTCTGCACGTTCAAACCGTTCAGCAATAAAGGGAAAACCTGGTTATTC
AGTACACAGTAAACATGAGCAGAAGATGGACTGTGGAGGGGGCTACATTAAGGTCTTCTGCAGACAT
TGACCAGAAGAACCTGAATGGAAAATCGCAATACTATATTATGTTTGGACCCGATATTTGTGGATTTGAT
ATCAAGAAAGTTCATGTTATTTTACATTTCAAGAATAAGTATCACGAAAACAAGAACTGATCAGGTGTA
AGGTTGATGGCTTACACACCTGTACACTCTAATTTTAAAGACCAGATCTTCTTATGATGTGAAAATTGA
TGGTCAGTCAATTGAATCCGGCAGCATAGAGTACGACTGGAACCTAACATCACTCAAGAAGGAAACGTCC
CCGGCAGAATCGAAGGATTGGGAACAGACTAAAGACAACAAGCCAGGACTGGGAGAAGCATTTTCTGG
ACGCCAGCACCAGCAAGCAGAGCGACTGGAACGGTGACCTGGATGGGGACTGGCCAGCGCCGATGCTCCA
GAAGCCCCCGTACCAGGATGGCTGAAACCAGAAGGTATTCATAAAGACGCTGGCTCCACCGTAAGATG
AAGAATACCGACTATTTGACGCGATGACCTCTCAGAATTTGAGAACATTGGTGCCATTGGCTGGAGC
TTTGGCAGGTGAGATCTGGAACCATTTTTGATAACTTTCTGATCACAGATGATGAAGAGTATGCAGATAA
TTTTGGCAAGGCCACCTGGGGCGAAACCAAGGGTCCAGAAAGGGAGATGGATGCCATACAGGCCAAGGAG
GAAATGAAGAAGGCCCGCGAGGAAGAGGAGGAAGAGCTGCTGCGGGAAAAATTAACAGGCACGAACATT
ACTTCAATCAATTTACAGAAGGAATGAACTT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205398 representing NM_145046
 Red=Cloning site Green=Tags(s)

MARALVQFWAICMLRVALATVYFQEEFLDGEHWRNRWLQSTNDSRFGHFRLSSGKFYGHKEKDKGLQTTQ
 NGRFYAISARFKPFSNKGKTLVIQYTVKHEQKMDCGGGYIKVFPADIDQKNLNGKSQYYIMFGPDICGFD
 IKKVHVILHFKNKYHENKKLIRCKVDGFTHLYTLILRPDLSDYDKIDGQSIESGSIYDWNLTSLKKETS
 PAESKDWEQTKDNKAQDWEKHFLLDASTSKQSDWNGDLGDWPAPMLQKPPYQDGLKPEGIHKDVWLHRKM
 KNTDYLTYDLSEFENIGAIGLELWQVRSGLIFDNFLITDDEEYADNFGKATWGTEKGPEREMDAIQAKE
 EMKKAREEEEEELLSGKINRHEHYFNQFHRRNEL

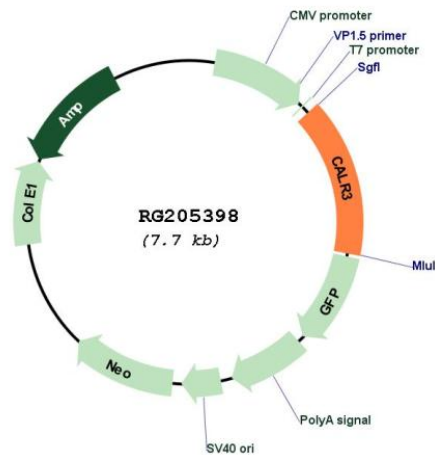
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_145046

ORF Size:	1152 bp
OTI Disclaimer:	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
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_145046.2 , NP_659483.1
RefSeq Size:	1288 bp
RefSeq ORF:	1155 bp
Locus ID:	125972
UniProt ID:	Q96L12
Cytogenetics:	19p13.11
Gene Summary:	The protein encoded by this gene belongs to the calreticulin family, members of which are calcium-binding chaperones localized mainly in the endoplasmic reticulum. This protein is also localized to the endoplasmic reticulum lumen, however, its capacity for calcium-binding may be absent or much lower than other family members. This gene is specifically expressed in the testis, and may be required for sperm fertility. Mutation in this gene has been associated with familial hypertrophic cardiomyopathy. [provided by RefSeq, Dec 2011]