

Product datasheet for **MR218700**

Calr3 (NM_029782) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calr3 (NM_029782) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calr3
Synonyms:	1700031L01Rik; 6330586I20Rik; Crt2; cspn
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR218700 representing NM_029782 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTTCTGGTGAACCAAGAGCACCCAGACAGATCAAGTTACTGTTCCCTTGGTGGGGCAGGATGCT
TAGGACCTGATATTTGTGGATTTGATATCAAGAAAGTTCATGTTATCTTATTTCAAGAATCAATATCA
TGAACAAGAAGCCAATCAGATGCAAGGTGGATGGCTTACGCATCTCTACACCCTGATCTTAAGACCA
GATCTTTCTTACGAGGTAAAAGTCGATGGCCAGTCCATTGAGTCTGGCAGCATTGAGTATGACTGGAACC
TGACATCGCTGAGGAAAACGGAAAAGACATCACTGGACTCTAGGGACTGGGATCAGGTGGAAGGCAGTAA
AGTCCAGGATTGGGAAAAGCACTTTCTGGATGCGGGTGCAGCAAGCCGAGTACTGGAACAGTGAAGTCTG
GATGGGGACTGGCTGCAGAAGCCACCATATGAGGATGGCTGAAAGCTGAGGGCATCGACAAGGACGTGT
GGCTCCACCAGAAGATGAGACCTGCTGGCTACCTGACGCAGTATGACCTCTCAGAGTTTGAAGCATTGG
CGCCATTGGTCTAGAGCTGTGGCAGGTGAGATCTGGAACCATCTTGATAACTTCTGATCACAGATGAT
GAAGAATATGCAGAGAAGTTTGGCAAGGCCACCTGGGGAGAACTAAGGGTCCAGAAAAGGAGATGGATG
CCATACAGGCCAAGGAAGAAGTAAAAAGGCCCGTGAAGAAGATGAGGAGGATCTGCTGATGGGGAAGTT
TCACAGGCACAACCATTTACGACGATTCACAGGCAGGGCGAACTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218700 representing NM_029782
Red=Cloning site Green=Tags(s)

MSSGELKSTPDRSSYCSLGGAGCLGPDICGFDIKKVHVILYFKNQYHENKKPIRCKVDGFTHLYLILRP
 DLSYEVKVDGQSIESGSIEYDWNLTSLRKTEKTSLSRSDWDQVEGSKVQDWEKHF LDAGASKPSDWNSEL
 DGDWLQKPPYEDGLKAEGIDKDVWLHQKMRPAGYL TQYDLSEFENIGAI GLELWQVRSGTIFDNFLITDD
 EEYAEKFGKATWGETKGPEKEMDAIQAKEEVKKAREEDEEDLLMGKFHRHNHFSRFHRQGEL

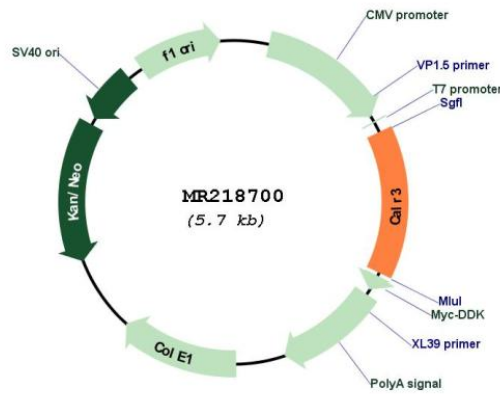
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_029782
ORF Size: 816 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_029782.3 , NP_084058.2
RefSeq Size:	1371 bp
RefSeq ORF:	819 bp
Locus ID:	73316
Cytogenetics:	8 B3.3
MW:	31.7 kDa
Gene Summary:	CALR3 capacity for calcium-binding may be absent or much lower than that of CALR (By similarity). During spermatogenesis, may act as a lectin-independent chaperone for specific client proteins such as ADAM3. Required for sperm fertility.[UniProtKB/Swiss-Prot Function]