

## Product datasheet for **MG218700**

### Calr3 (NM\_029782) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Calr3 (NM\_029782) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Calr3  
**Synonyms:** 1700031L01Rik; 6330586I20Rik; Crt2; cspn  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG218700 representing NM\_029782  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCTTCTGGTGAACCAAGAGCACCCAGACAGATCAAGTTACTGTTCCCTTGGTGGGCAGGATGCT  
 TAGGACCTGATATTTGTGGATTTGATATCAAGAAAGTTCATGTTATCTTATTTCAAGAATCAATATCA  
 TGAAAACAAGAAGCCAATCAGATGCAAGGTGGATGGCTTCACGCATCTCTACACCCTGATCTTAAGACCA  
 GATCTTTCTTACGAGTAAAAGTCGATGGCCAGTCCATTGAGTCTGGCAGCATTGAGTATGACTGGAACC  
 TGACATCGCTGAGGAAAACGAAAAGACATCACTGGACTCTAGGGACTGGGATCAGGTGGAAGGCAGTAA  
 AGTCCAGGATTTGGAAAAGCACTTTCTGGATGCGGGTGCCAGCAAGCCGAGTACTGGAACAGTGAGCTG  
 GATGGGGACTGGCTGCAGAAGCCACCATATGAGGATGGCCTGAAAGCTGAGGGCATCGACAAGGACGTGT  
 GGCTCCACCAGAAGATGAGACCTGCTGGCTACCTGACGCAGTATGACCTCTCAGAGTTTGAGAACATTGG  
 CGCCATTGGTCTAGAGCTGTGGCAGGTGAGATCTGGAACCATCTTTGATAACTTCCTGATCACAGATGAT  
 GAAGAATATGCAGAGAAGTTTGGCAAGGCCACCTGGGGAGAACTAAGGGTCCAGAAAAGGAGATGGATG  
 CCATACAGGCCAAGGAAGAAGTAAAAAGGCCCGTGAAGAAGATGAGGAGGATCTGCTGATGGGGAAGTT  
 TCACAGGCACAACCATTTTCAGCAGATTCACAGGCAGGGCGAACTA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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MSSGELKSTPDRSSYCSLGGAGCLGPDICGFDIKKVHVILYFKNQYHENKKPIRCKVDGFTHLYTLILRP  
 DLSYEVKVDGQSIESGSI EYDWNLTSLRKTEKTSLSRSDWDQVEGSKVQDWEKHFLDAGASKPSDWNSEL  
 DGDWLQKPPYEDGLKAEGIDKDVWLHQKMRPAGYL TQYDLSEFENIGAI GLELWQVRSGTIFDNFLITDD  
 EEYAEKFGKATWGETKGPEKEMDAIQAKEEVKKAREEDEDLLMGKFHRHNHF SRFHRQGEL

TRTRPLE - GFP Tag - V

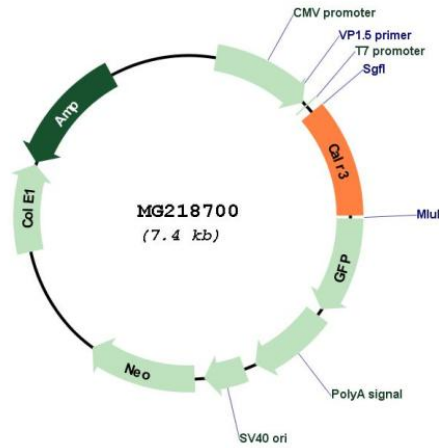
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_029782

**ORF Size:** 816 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_029782.3</a> , <a href="#">NP_084058.2</a>
<b>RefSeq Size:</b>	1371 bp
<b>RefSeq ORF:</b>	819 bp
<b>Locus ID:</b>	73316
<b>Cytogenetics:</b>	8 B3.3
<b>Gene Summary:</b>	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]