

Product datasheet for **MG215724**

Calr3 (NM_028500) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calr3 (NM_028500) 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:	>MG215724 representing NM_028500 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCTCGGCTCGTGCATTGCTCTGGGCCATCTGTGTGCTGCGCGTGGCACTAGCCACTGTGTACTTCC
AGGAGGAGTTTCTAGACGGAGAGCGCTGGAGGAACCGCTGGGTGCAGTCCACCAATGACTCCCAGTTTGG
GCACTTCAGAGTCTCATCGGGAAAGTTCTATGGGCATAAAGAGAAAGACAAAGGCCTGCAGACTACCCAA
AACAGCCGATTCTATGCCATCTCTGCGAGCTTCAAGCCATTCAGCAACAAAGGGAAGACCCTGGTAATCC
AGTACACGGTGAAGCATGAGCAGAAGATGGACTGTGGTGGTTACATCAAGGTGTTCCGTCTGACCT
GGACCAGAAGAAGATGAACGGAAAATCTCAGTACTACATCATGTTTGGACCTGATATTTGTGGATTTGAT
ATCAAGAAAGTTCATGTTATCTTATATTTCAAGAATCAATATCATGAAAACAAGAAGCCAATCAGATGCA
AGGTGGATGGCTTACGCATCTCTACACCTGATCTTAAGACCAGATCTTTCTTACGAGGTAAAAGTCGA
TGGCCAGTCCATTGAGTCTGGCAGCATTGAGTATGACTGGAACCTGACATCGCTGAGGAAAACGGAAAAG
ACATCACTGGACTCTAGGGACTGGGATCAGGTGGAAGGCAGTAAAGTCCAGGATTGGGAAAAGCACTTTC
TGGATGCGGGTGCCAGCAAGCCGAGTACTGGAACAGTGGTGGATGGGACTGGCTGCAGAAGCCACC
ATATGAGGATGGCCTGAAAGCTGAGGGCATCGACAAGGACGTGTGGCTCCACCAGAAGATGAGACCTGCT
GGCTACCTGACGCAGTATGACCTCTCAGAGTTTGAGAACATTGGCGCCATTGGTCTAGAGCTGTGGCAGG
TGAGATCTGGAACCATCTTTGATAACTTCTGATCACAGATGATGAAGAATATGCAGAGAAGTTTGGCAA
GGCCACCTGGGGAGAAAATAAGGGTCCAGAAAAGGAGATGGATGCCATACAGGCCAAGGAAGAAGTGA
AAGGCCGTGAAGAAGATGAGGAGGATCTGCTGATGGGGAAGTTTACAGGCACAACCATTTTCAGCAGAT
TCCACAGGCAGGGCGAACTA

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG215724 representing NM_028500
 Red=Cloning site Green=Tags(s)

MVSARALLWAICVLRVALATVYFQEEFLDGERWRNRWVQSTNDSQFGHFRVSSGKFYGHKEKDKGLQTTQ
 NSRFYAISASFKPFSSNKGKTLVIQYTVKHEQKMDCCGGYIKVFPDLDQKKMNGKSQYYIMFGPDICGFD
 IKKVHVILYFKNQYHENKKPIRCKVDGFTHLYTLILRPDLSYEVKVDGQSIESGSIYDWNLTSLRKTEK
 TSLDSRDWDQVEGSKVQDWEKHFLDAGASKPSDWNSSELDGDWLQKPPYEDGLKAEGIDKDVWLHQKMRPA
 GYLTQYDLSEFENIGAIGLELWQVRSGTIFDNFLITDDEEYAEKFGKATWGETKGPEKEMDAIQAKEEVK
 KAREEDEDLLMGKFHRHNHFSRFHRQGEL

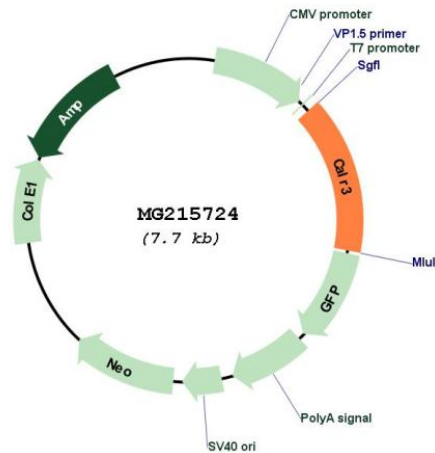
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_028500

ORF Size:	1140 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_028500.3 , NP_082776.2
RefSeq Size:	1670 bp
RefSeq ORF:	1143 bp
Locus ID:	73316
UniProt ID:	Q9D9Q6
Cytogenetics:	8 B3.3
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]