

Product datasheet for MR215724

Calr3 (NM_028500) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calr3 (NM_028500) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calr3
Synonyms:	1700031L01Rik; 6330586I20Rik; Crt2; cspn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215724 representing NM_028500 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCTCGGCTCGTGCATTGCTCTGGGCCATCTGTGTGCTGCGCGTGGCACTAGCCACTGTGTACTTCC
AGGAGGAGTTTCTAGACGGAGAGCGCTGGAGGAACCGCTGGGTGCAGTCCACCAATGACTCCCAGTTTGG
GCACTTCAGAGTCTCATCGGGAAAGTTCTATGGGCATAAAGAGAAAGACAAAGGCCTGCAGACTACCCAA
AACAGCCGATTCTATGCCATCTCTGCGAGCTTCAAGCCATTCAGCAACAAAGGGAAGACCCTGGTAATCC
AGTACACGGTGAAGCATGAGCAGAAGATGGACTGTGGTGGTTACATCAAGGTGTTCCGTCTGACCT
GGACCAGAAGAAGATGAACGGAAAATCTCAGTACTACATCATGTTTGGACCTGATATTTGTGGATTTGAT
ATCAAGAAAGTTCATGTTATCTTATATTTCAAGAATCAATATCATGAAAACAAGAAGCCAATCAGATGCA
AGGTGGATGGCTTACGCATCTCTACACCTGATCTTAAGACCAGATCTTTCTTACGAGGTAAAAGTCGA
TGGCCAGTCCATTGAGTCTGGCAGCATTGAGTATGACTGGAACCTGACATCGCTGAGGAAAACGGAAAAG
ACATCACTGGACTCTAGGGACTGGGATCAGGTGGAAGGCAGTAAAGTCCAGGATTGGGAAAAGCACTTTC
TGGATGCGGGTGCCAGCAAGCCGAGTACTGGAACAGTGGATGGGACTGGCTGCAGAAGCCACC
ATATGAGGATGGCCTGAAAGCTGAGGGCATCGACAAGGACGTGTGGCTCCACCAGAAGATGAGACCTGCT
GGCTACCTGACGCAGTATGACCTCTCAGAGTTTGAGAACATTGGCGCCATTGGTCTAGAGCTGTGGCAGG
TGAGATCTGGAACCATCTTTGATAACTTCTGATCACAGATGATGAAGAATATGCAGAGAAGTTTGGCAA
GGCCACCTGGGGAGAAAATAAGGGTCCAGAAAAGGAGATGGATGCCATACAGGCCAAGGAAGAAGTGA
AAGGCCGTGAAGAAGATGAGGAGGATCTGCTGATGGGAAGTTTACAGGCACAACCATTTTCAGCAGAT
TCCACAGGCAGGGCGAACTA

ACGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR215724 representing NM_028500
Red=Cloning site Green=Tags(s)

MVSARALLWAICVLRVALATVYFQEEFLDGERWRNRWVQSTNDSQFGHFRVSSGKFYGHKEKDKGLQTTQ
 NSRFYAISASFKPFSNKGKTLVIQYTVKHEQKMDCGGGYIKVFPSDLQKKMNGKSQYYIMFGPDICGFD
 IKKVHVILYFKNQYHENKKPIRCKVDGFTHLYTLILRPDLSYEVKVDGQSIESGSIYDWNLTSLRKTEK
 TSLDSRDWDQVEGSKVQDWEKHFLDAGASKPSDWNSLGDGDLQKPPYEDGLKAEGIDKDVLHQMMPA
 GYLTYDLSEFENIGAIGLELWQVRSGITFDNFLITDDEEYAEKFGKATWGETKGPEKEMDAIQAKEEVK
 KAREEDEDLLMGKFHRHNHFSRFRQGEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9061_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:

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

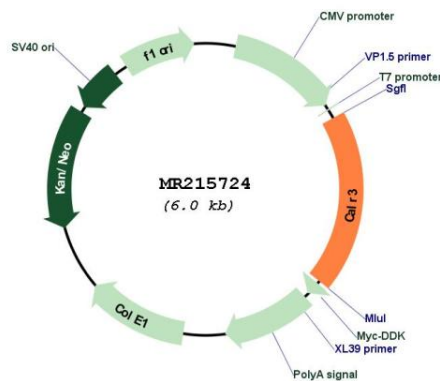
UniProt ID: [Q9D9Q6](#)

Cytogenetics: 8 B3.3

MW: 44.2 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]

Product images:



Circular map for MR215724