

## Product datasheet for **MR206584**

### Calr (NM\_007591) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calr (NM_007591) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calr
Synonyms:	Calregulin; CRT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206584 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCCTTTCCGGTGCCGCTCCTGCTTGGCCTCCTCGGCCTGGCCGCCGAGACCCTGCCATCTATTTCA  
AAGAGCAGTTCTTGACGGAGATGCCTGGACCAACCGCTGGTTCGAATCCAAACATAAGTCCGATTTTGG  
CAAATTTGTCCTCAGTTCTGGCAAATTTACGGGGACCTGGAGAAGGATAAAGGGCTGCAGACAAGCCAA  
GATGCCGATTTTACGCACTGTCCGCAAATTCGAACCCCTCAGCAATAAGGGCCAGACACTGGTGGTAC  
AGTTCACGGTGAAGCATGAGCAGAATATCGACTGTGGGGCGGCTACGTGAAGCTGTTTCCGAGTGGCTT  
GGACCAGAAGGACATGCATGGAGACTCAGAATATAACATCATGTTTGGTCCGGACATCTGCGGTCCTGGC  
ACCAAGAAGGTTTCATGTCATCTTAACTACAAGGCAAGAATGTGCTGATCAACAAGGATATCCGGTGTA  
AGGATGATGAATTCACACACCTATACACTGATTGTGCGGCCAGACAACACCTATGAGGTGAAAATTGA  
CAACAGCCAGGTGGAGTCAGGCTCCTTGGAGGATGATTGGGACTTCTGCCACCCAAGAAGATAAAGGAC  
CCTGATGCTGCCAAGCCGGAAGACTGGGATGAACGAGCCAAGATCGATGACCCACAGATTCCAAGCCTG  
AGGACTGGGACAAGCCAGAGCACATCCCTGACCCTGATGCTAAGAAGCCTGAGGACTGGGATGAAGAGAT  
GGATGGAGAGTGGGAACCAACAGTGAATCAAAAATCCTGAATAACAAGGGCGAGTGGAAACCAAGTCAAAT  
GACAACCAAGATTACAAGGTACCTGGATACCCAGAAAATGACAACCCCTGAATACTCCCCGATGCAA  
ATATCTATGCCTATGATAGTTTTGCTGTACTGGGCTAGATCTCTGGCAGGTCAAGTCCGGGACAATCTT  
TGACAATTTCTCATACCAATGATGAGCCTATGCAGAGGAGTTTGGCAATGAGACGTGGGGTGTACC  
AAGGCTGCAGAGAAGCAGATGAAGGACAAGCAGGATGAGGAGCAGAGGCTTAAGGAAGAAGAAGGAGACA  
AGAAGCGTAAAGAGGAAGAAGAAGCTGAGGATAAAGAGGATGATGATGACAGAGATGAAGATGAGGATGA  
AGAAGATGAGAAGGAGGAAGATGAGGAAGAATCCCTGGCCAAGCCAAGGATGAGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206584 protein sequence  
 Red=Cloning site Green=Tags(s)

MLLSVPLLLGLLGLAADPAIYFKEQFLDGDWNTNRWVESKHKSDFGKFLVSSGKFYGDLEKDKGLQTSQ  
 DARFYALSAKFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPISGLDQKDMHGDSEYNIMFGPDICGPG  
 TKKVHVIFNYKGNVLIINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKD  
 PDAAKPEDWDERAKIDDPDTSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPIQNPEYKGEWKPRQI  
 DNPDKYKGTWIHPEIDNPEYSPDANIYAYDSFAVLGLDLWQVKSQGTIFDNFLITNDEAYAEFFGNETWGV  
 TAAEKQMKDKQDEEQRLKEEEEDKKRKEEEEAEDEKEDDDRDEDEDEDEKEEDEEESPGQAKDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_007591

**ORF Size:** 1251 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\\_007591.1](#)

**RefSeq Size:** 1943 bp

**RefSeq ORF:** 1251 bp

**Locus ID:** 12317

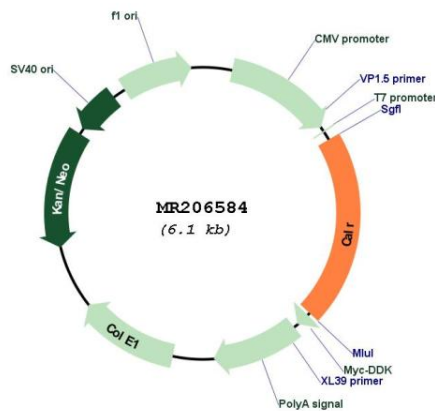
**UniProt ID:** [P14211](#)

**Cytogenetics:** 8 41.21 cM

**MW:** 48 kDa

**Gene Summary:** Calcium-binding chaperone that promotes folding, oligomeric assembly and quality control in the endoplasmic reticulum (ER) via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER. Interacts with the DNA-binding domain of NR3C1 and mediates its nuclear export. Involved in maternal gene expression regulation. May participate in oocyte maturation via the regulation of calcium homeostasis (By similarity).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR206584