

Product datasheet for **MR221846**

Calcr (NM_007588) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcr (NM_007588) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calcr
Synonyms:	Clr; Ct-r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221846 representing NM_007588
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTCCAAGGAGTCCAGAGTAAAAGCGGAAATCTCCGCAAACCGAAGATGAGGTTCTTCTCGTGA
 ACAGTTACACCTGCTGCTCCTGCTCCTAGTGAGCCAACTCCAGTTCTTCAGGCTCCTACCAATCTCAC
 TGACTCCGGCCTTGATCAGGAGCCATTCCTGTACTTGGTTGGCCGAAGAAGCTGCTGGATGCTCAGTAC
 AAATGCTATGACCGGATTCATCAGTTGCCCTCTTATGAAGGAGAAGGTCTGTACTGCAACCGCACCTGGG
 ATGGCTGGATGTCTGGGACGACTCCCGCTGGAGCCACAGCCTATCAGCACTGCCCTGACTACTTCCC
 GGACTTTGACACAGCAGAAAAGTTTCAAATACTGTGATGAAAATGGAGAGTGGTTTAGACACCCTGAC
 AGCAACCGAACCTGGTCCAATACTCTGTGCAACGCTTTCACTTCTGAGAACTGCAAAATGCGTACG
 TTCTTTATTACCTGGCTCTTGTGGTCACTCCTTGTGATTGCTGCTTTGGTTGCTTCCATGCTGATCTT
 CTGGATTTTCAAGAACCTTAGCTGCCAGAGGGTGACCTTGACAAGCACATGTTCCCTTACTTATATTCTG
 AATTCTATCATTATCATATCCACTGGTTGAGTTGTGCCCAATGGAGATCTGGTGCAGCGGGATCCTA
 TGCATATTTTTATCATAACACACATATGTGGACAATGCAGTGGGAACTGTCACCACCCTTACCCCTGAG
 TGCACACGAGGAAAAGATGGACCCTCATGCCAGTGAAGTGATAAGTTGCAAGTTCTACACTTTTTACAT
 CAGTACATGATGTCTTGAACACTTCTGGATGCTCTGCGAGGGGATCTATCTTCATACTCTGATTGTCA
 TGGCTGTGTTTACCGACGAGCAACGCCTACGCTGGTACTATCTTCTTGGCTGGGGTTCCCGATAGTGCC
 AACCATATCCACGCCATCACTCGTGCCCTCTACTACAACGACAACCTGCTGGCTGAGTGCAGAAACCCAC
 TTGCTTTACATCATCCATGGACCCGTATGGTGGCTCTGGTGGTCAACTTCTTCTTCTTCTCAACATTG
 TCCGCTGCTTGTGACCAAGATGAGGCAAACCCACGAGGCCGAGTCTACATGACTGAAGCTGATGAA
 GGCCACCATGGTCTTGTGCCCTGCTGGGGATCCAGTTTGTGTGTTTCCCTGGAGGCCCTCCAACAAG
 GTGCTTGGGAAGATCTATGATTATCTCATGCACTCTCTGATTCAATTTCCAGGGATTCTTTGTGGCGACTA
 TCTACTGTTCTGCAACCATGAGGTGCAAGTCAACCTGAAGCGCCAGTGGACGCAGTTAAGATCCAGTG
 GAGCCAACGCTGGGAAGGCGCCGCCCCCAACCGCGTAGTTAGTGTCTCTCGGGCTGTAGCCTTC
 GCTGAGCCAGATGGCCTCCCATTTACATCTGCCATCAGGAACCGGAATCCTCCAATCAGCAACAACG
 AAGCGGAGGAGTACTGAAATGATCCCATGAACGTCATCCAGCAAGACGCATCCGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221846 representing NM_007588
 Red=Cloning site Green=Tags(s)

MTPRRSRVKRRNLRKPKMRFLVNRFTLLLLLLVSPTPVLQAPTNLTDSDLQEPFLYLVRKLLLDAQY
 KCYDRIHQLPSEYEGELYCNRTWDGWMCWDDTPAGATAYQHCPDYFPDFDTAEKVS KYCDENGEWFRHPD
 SNRTWSNYTLCNAFTSEKLQNAVLYLALVGHSLSIAALVASMLIFWIFKNLSCQRVTLHKHMFITYIL
 NSIIIIHLVEVVPNGDLVRRDPMHIFHHNTHMWTMQWELSPPLPLSAHEGKMDPHASEVISCKVLHFLH
 QYMMSNCYFWMLCEGIYLHTLIVMAVFTDEQRLRWYLLGWGFPVPTIIHAITRALYYNDNCWLSAETH
 LLYIIHGPMVALVNNFFLLNIVRVLVKMRQTHEAESMYLKAVKATMVLVPLLGIQFVVPWRPSNK
 VLGKIYDYLMSLIHFQGFVATIYCFNHEVQVTLKRQWTQFKIQWSQRWRRRRPTNRVVSAPRAVAF
 AEPDGLPIYICHQEPRNPPISNNEGEESTEMIPMNVIQQDASA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9015_f12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_007588

ORF Size: 1599 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_007588.2](#), [NP_031614.2](#)

RefSeq Size: 3831 bp

RefSeq ORF: 1602 bp

Locus ID: 12311

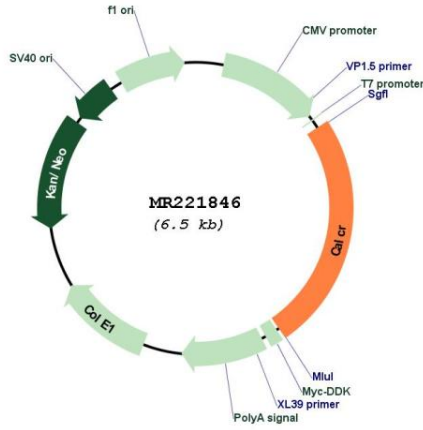
UniProt ID: [Q60755](#)

Cytogenetics: 6 1.81 cM

MW: 62.9 kDa

Gene Summary: This is a receptor for calcitonin. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. The calcitonin receptor is thought to couple to the heterotrimeric guanosine triphosphate-binding protein that is sensitive to cholera toxin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221846