

Product datasheet for **MR222100**

Calcr (NM_001042725) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Calcr (NM_001042725) 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:

>MR222100 representing NM_001042725
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTCCAAGGAGTCCAGAGTAAAAGCGGAAATCTCCGCAAACCGAAGATGAGGTTCTTCTCGTGA
 ACAGGTTCAACCTGCTGCTCCTGCTCCTAGTGAGCCAACTCCAGTTCTTCAGGCTCCTACCAATCTCAC
 TGACTCCGGCCTTGATCAGGAGCCATTCCTGTACTTGGTTGGCCGAAGAAGCTGCTGGATGCTCAGTAC
 AAATGCTATGACCGGATTCATCAGTTGCCCTCTTATGAAGGAGAAGGTCTGTACTGCAACCCGACCTGGG
 ATGGCTGGATGTGCTGGGACGACTCCCGCTGGAGCCACAGCCTATCAGCACTGCCCTGACTACTTCCC
 GGACTTTGACACAGCAGAAAAGTTTCAAATACTGTGATGAAAATGGAGAGTGGTTTAGACACCCTGAC
 AGCAACCGAACCTGGTCCAATACTCTGTGCAACGCTTTCCTTCTGAGAACTGCAAAATGCGTACG
 TTCTTTATTACCTGGCTCTTGTGGTCACTCCTTGTGATGCTGCTTTGGTTGCTTCCATGCTGATCTT
 CTGGATTTTCAAGAACCTTAGCTGCCAGAGGGTACCTTGCAAGCACATGTTCTTACTTATATTCTG
 AATTCTATCATTATCATCATCCACTGGTTGAGGTTGTGCCAAATGGAGATCTGGTGCAGCGGGATCCTA
 TAAGTTGCAAGGTTCTACACTTTTTACATCAGTACATGATGTCTTGAACACTTCTGGATGCTCTGCGA
 GGGGATCTATCTTCACTCTGATTGTCATGGCTGTGTTACCGACGAGCAACGCCTACGCTGGTACTAT
 CTTCTTGGCTGGGGTCCCGATAGTGCCAACCATATCCACGCCATCACTCGTGCCTCTACTACAACG
 ACAACTGCTGGCTGAGTGCAAAACCACTTGTCTTACATCATCCATGGACCCGTCATGGTGGCTCTGGT
 GGTCACCTTCTTCTTCTCAACATTGTCCGCTGCTTGTGACCAAGATGAGGCAAACCCACGAGGCC
 GAGTCTACATGTACCTGAAGGCTGTGAAGGCCACCATGGTCTTGTGCCCTGCTGGGGATCCAGTTTG
 TTGTGTTCCCTGGAGGCCCTCCAACAAGGTGCTTGGGAAGATCTATGATTATCTCATGCACTCTGAT
 TCAATTTCCAGGGATTCTTTGTGGGACTATCTACTGCTTCTGCAACCATGAGGTGCAAGTCAACCTGAAG
 CGCCAGTGGACGAGTTCAAGATCCAGTGGAGCCAACGCTGGGGAAGGCGCCGCCCCCAACCGCG
 TAGTTAGTCTCCTCGGCTGTAGCCTTCTGCTGAGCCAGATGGCCTCCCATTTACATCTGCCATCAGGA
 ACCACGGAATCTCCAATCAGCAACAACGAAGGCGAGGAGAGTACTGAAATGATCCCATGAACGTCATC
 CAGCAAGACGCATCCGCT

**ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>MR222100 representing NM_001042725
 Red=Cloning site Green=Tags(s)

MTPRRSRVKRRNLRKPKMRFLVNRFTLLLLLLVSPTPVLQAPTNLTDSDLQEPFLYLVRKLLDAQY
 KCYDRIHQLPSEGEGLYCNRTWDGWMCWDDTPAGATAYQHCPDYFPDFDTAEKVSXYCDENGWFRHPD
 SNRTWSNYTLCNAFTSEKLQNAVLYLALVGHLSIAALVASMLIFWIFKNLSCQRVTLHKHMFLTYIL
 NSIIIIHLVEVVPNGDLVRRDPISCKVLHFLHQYMMSCNYFWMLCEGIYVHTLIIVMAVFTDEQRLRWY
 LLGWGFPVPTIIHAITRALYYNDNCWLSAETHLLYIIHGPMVALVVFVFLNIVRVLVTKMRQTHEA
 ESYMYLKAVKATMVLVPLLGIFVFPWRPSNKVLGKIYDYLMSLIHFQGFVATIYFCNHEVQVTLK
 RQWTQFKIQWSQRWRRRRPTNRVVSAPRAVAF AEPDGLPIYICHQEPRNPPISNNEGEESTEMIPMNVI
 QDASA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9038_f04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001042725

ORF Size: 1488 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_001042725.1](#), [NP_001036190.1](#)

RefSeq Size: 3471 bp

RefSeq ORF: 1491 bp

Locus ID: 12311

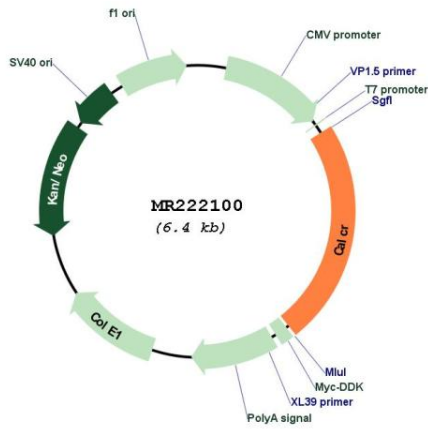
UniProt ID: [Q60755](#)

Cytogenetics: 6 1.81 cM

MW: 58.6 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 MR222100