

Product datasheet for **MG222100**

Calcr (NM_001042725) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcr (NM_001042725) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Calcr
Synonyms:	Clr; Ct-r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222100 representing NM_001042725
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTCCAAGGAGTCCAGAGTAAAAGCGGAAATCTCCGCAAACCGAAGATGAGGTTCTTCTCGTGA
 ACAGGTTACCCCTGCTGCTCCTGCTCCTAGTGAGCCAACTCCAGTTCTTCAGGCTCCTACCAATCTCAC
 TGACTCCGGCCTTGATCAGGAGCCATTCCTGTACTTGGTTGGCCGAAGAAGCTGCTGGATGCTCAGTAC
 AAATGCTATGACCGGATTCATCAGTTGCCCTCTTATGAAGGAGAAGGTCTGTACTGCAACCCGACCTGGG
 ATGGCTGGATGTGCTGGGACGACTCCCGCTGGAGCCACAGCCTATCAGCACTGCCCTGACTACTTCCC
 GGACTTTGACACAGCAGAAAAGTTTCAAATACTGTGATGAAAATGGAGAGTGGTTTAGACACCCTGAC
 AGCAACCGAACCTGGTCCAATACTCTGTGCAACGCTTTCCTTCTGAGAACTGCAAAATGCGTACG
 TTCTTTATTACCTGGCTCTTGTGGTCACTCCTTGTGATTTGCTGCTTTGGTTGCTTCCATGCTGATCTT
 CTGGATTTTCAAGAACCTTAGCTGCCAGAGGGTACCTTGCAACGACATGTTCCCTTACTTATATTCTG
 AATTCTATCATTATCATCATCCACTGGTTGAGGTTGTGCCAAATGGAGATCTGGTGCGCGGGATCCTA
 TAAGTTGCAAGGTTCTACACTTTTTACATCAGTACATGATGTCTTGAACACTTCTGGATGCTCTGCGA
 GGGGATCTATCTTCACTCTGATTGTCATGGCTGTGTTACCGACGAGCAACGCTACGCTGGTACTAT
 CTTCTTGGCTGGGGTCCCGATAGTGCCAACCATATCCACGCCATCACTCGTGCCTCTACTACAACG
 ACAACTGCTGGCTGAGTGCAAAACCCACTTGTCTTACATCATCCATGGACCCGTCATGGTGGCTCTGGT
 GGTCAACTTCTTCTTCTCAACATTGTCCGCTGCTTGTGACCAAGATGAGGCAAACCCACGAGGCC
 GAGTCTACATGTACCTGAAGGCTGTGAAGGCCACCATGGTCTTGTGCCCTGCTGGGGATCCAGTTTG
 TTGTGTTTCCCTGGAGGCCCTCAACAAGGTGCTTGGGAAGATCTATGATTATCTCATGCACTCTGAT
 TCATTTCCAGGGATTCTTGTGGGACTACTACTGCTTCTGCAACCATGAGGTGCAAGTCAACCTGAAG
 CGCCAGTGGACGAGTTCAAGATCCAGTGGAGCCAACGCTGGGAAGGCGCCGCCCCCAACCGCG
 TAGTTAGTCTCCTCGGCTGTAGCCTTCTGCTGAGCCAGATGGCCTCCCATTTACATCTGCCATCAGGA
 ACCACGGAATCTCCAATCAGCAACAACGAAGGCGAGGAGACTGAAATGATCCCATGAACGTCATC
 CAGCAAGACGCATCCGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222100 representing NM_001042725
 Red=Cloning site Green=Tags(s)

MTPRRSRVKRRNLRKPKMRFLLVNRFLLLLLLVSPTPVLQAPTNLTDGLDQEPFLYLVRKLLDAQY
 KCYDRIHQLPSEGEGLYCNRTWDGWMCWDDTPAGATAYQHCPDYFDFDTAEKYSKYCDENGWEFRHPD
 SNRTWSNYTLCAFTSEKLQNAVLYLALVGHSLSIAALVASMLIFWIFKNLSCQRVTLHKHMFLTYIL
 NSIIIIHLVEVVPNGDLVRRDPISCKVLHFLHQYMMSCNYFWMLCEGIYHLIIVMAVFDEQRLRWYY
 LLGWGFPVPTIIHAITRALYYNDCWLSAETHLLYIIHGPMVALVNVFFLLNIVRVLVTKMRQTHEA
 ESYMYLKAVKATMVLVPLLGIQFVVPWRPSNKVLGKIYDYLMSLIHFQGFVATIYFCNHEVQVTLK
 RQWTQFKIQWSQRWRRRRPTNRVVSAPRAVAFAEPDGLPIYICHQEPRNPPISNNEGEESTEMIPMNVI
 QQDASA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

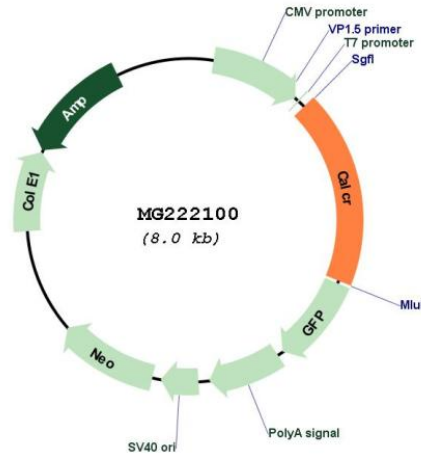


EcoRI *BamHI* *KpnI* RBS Kozac Consensus *SgfI* *AscI*
 CTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII *NheI* *RsrII* *MluI* *NotI* *XhoI* GFP Tag
 CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CCG CCG CTC GAG ATG GAG AGC GAC - - - -
 T R T R P L E M E S D - - - -

 PmeI *FseI*
 - - - GAA GAA AGA GTT TAA ACGGCCGGCCGGAGCT
 - - - E E R V Stop

Plasmid Map:



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

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]