

Product datasheet for **RR200228**

Calcr (NM_053816) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcr (NM_053816) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calcr
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200228 representing NM_053816
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTCCACGGAGATCCAGAATGAAAAGCGGAACTCCGAAAACCGAAGATGAGGTTCTTCTCCTGA
 ACAGGTTACCCCTGCTGCTCCTGCTCCTAGTGAGCCCTACTCCAGTTCTTCAGGCTCCTACCAATCTCAC
 TGACTCCGGCCTTGATCAGGAGCCATTCTGTACTTGGTTGGACGCAAGAAGCTTCTGGATGCTCAGTAC
 AAGTGCTATGACCGGATTGAGCAGTTGCCCCCTTATGAGGGAGAAGGTCCATATTGCAACCGAACTTGGG
 ATGGATGGATGTGCTGGGACGACTCCAGCTGGTGAATGTCCTATCAGCACTGCCCTGACTACTTTCC
 GGACTTTGACCCAACAGAAAAGTTTCAAATACTGCGATGAAAATGGAGAGTGGTTTAGACACCCTGAC
 AGCAACCGAACCTGGTCCAACACTACTCTGTGCAATGCCTTCACTCCTGACAACTGCATAATGCATACG
 TTCTTTATTACCTAGCACTTGTGGGCCACTCCATGTCAATTGCTGCTCTGATTGCTTCCATGGGGATCTT
 CTTGTTTTCAAGAACCTTAGCTGCCAGAGAGTACTCTGCACAAGAACATGTTCCCTCACTTATATCCTG
 AACTCTATCATTATCATATCCACTGGTTGAGGTTGTGCCCAATGGAGACCTGGTGCAGCGGGATCCTA
 TGCATATTTTTATCATAACACATATATGTGGACAATGCAGTGGGAACTGTCACCACCCTTACCCCTGAG
 TGCACACGAGGAAAAGATGGACCCTCATGACAGTGAAGTGATAAGTTGCAAGATTCTGCACTTTTTCCAT
 CAGTACATGATGGCTTGAACACTTCTGGATGCTGTGTGAGGGGATCTATCTTCACACTCTGATCGTCA
 TGGCTGTGTTACCGAGGATCAACGTCTGCGCTGGTACTATTTACTTGGCTGGGGTTCCCAATAGTGCC
 AACTATTATCCATGCCATTACTCGTGCCGTCTACTACAACGACAACTGTTGGCTGAGTACGGAGACCCAC
 TTGCTTTACATCATCCATGGACCCGTATGGCGGCTCTGGTGGTCAACTTCTTCTTCTGCTCAACATTG
 TCCGTGTGCTTGTGACCAAGATGAGGCAAACCCATGAAGCCGAGGCCATACATGTACTGAAGGCTGTAAA
 GGCCACCATGGTCTTGTGCCCTGCTGGGGATCCAGTTTGTGTGTTTCCCTGGAGGCCCTCCAACAAA
 GTGCTTGGGAAGATCTATGATTATCTCATGCACTCTCTGATTCAATTTCCAGGGATTCTTTGTGCGGACTA
 TCTACTGTTCTGTAACCATGAGGTGCAAGTGACCCTGAAGCGTCAGTGGGCGCAGTTCAAGATCCAGTG
 GAGCCATCGTGGGTAGGCGCCGCCCCCAACCGAGTGGTTAGCGCTCCTCGTGTGTAGCCTTT
 GCAGAACCAGGTGGCTCCCATTTACATCTGCCATCAGGAACCAAGGAATCCTCCAGTCAGCAACAACG
 AAGCGAAGAGGGTACTGAAATGATCCCATGAATGTCATCCAGCAAGACTCATCCGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200228 representing NM_053816
 Red=Cloning site Green=Tags(s)

MTPRRSRMKRRNLRKPKMRFLLLNRFTLLLLLLVSPVLPVQAPTNLTDGLDQEPFLYLVRKLLDAQY
 KCYDRIQQLPPEYEGEPYCNRTWDGWMCWDDTPAGVMSYQHCPDYFPDFDPTKVSKYCDENGEWFRHPD
 SNRTWSNYTLCAFTPDKLHNAVLYLALVGHMSIAALIASMGIFLFFKNLSCQRVTLHKNMFLTYIL
 NSIIIIHLVEVVPNGDLVRRDPMHIFHHNTYMWTMQWELSPPLPLSAHEGKMDPHDSEVISCKILHFFH
 QYMMACNYFWMLCEGIYLHTLIVMAVFTEDQRLRWYLLGWGFPVPTIIHAITRAVYYNDNCWLSTETH
 LLYIIHGPMVAALVVNFFLLNIVRVLVTKMRQTHEAEAYMYLKAVKATMVLVPLLGIQFVVPWRPSNK
 VLGKIYDYLHSLIHFQFFVATIYFCFNHEVQVTLKRQWAQFKIQWSHRWRRRRPTNRVVSAPRAVAF
 AEPGGLPIYICHQEPNPPVSNNEGEGTEMIPMNVIQQDSSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

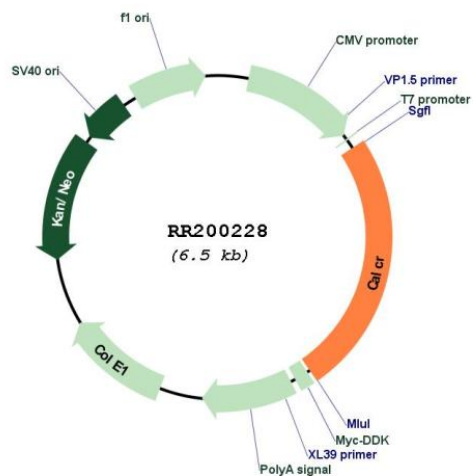
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_053816

ORF Size: 1599 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_053816.2](#), [NP_446268.2](#)

RefSeq Size: 3544 bp

RefSeq ORF: 1602 bp

Locus ID: 116506

UniProt ID: [P32214](#)

Cytogenetics: 4q13

MW: 62.5 kDa

Gene Summary: receptor for calcitonin; acts via adenylate cyclase signaling [RGD, Feb 2006]