

Product datasheet for **SC327556**

Calcitonin receptor (CALCR) (NM_001164738) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcitonin receptor (CALCR) (NM_001164738) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calcitonin receptor
Synonyms:	CRT; CT-R; CTR; CTR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC327556 representing NM_001164738.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGGTTACATTTACAAGCCGGTCTTGCCACTGTTTCTTCTTAATCACCCAACCCCAATTCCTT
CCTGCCTTTTCAAATCAAACCTATCCAACAATAGAGCCCAAGCCATTTCTTTACGTCGTAGGACGAAAG
AAGATGATGGATGCACAGTACAAATGCTATGACCGAATGCAGCAGTTACCCGCATACCAAGGAGAAGGT
CCATATTGCAATCGCACCTGGGATGGATGGCTGTGCTGGGATGACACACCCGGCTGGAGTATTGTCCTAT
CAGTTCTGCCAGATTATTTCCGGATTTTGATCCATCAGAAAAGGTTACAAAATACTGTGATGAAAAA
GGTGTGGTAAACATCCTGAAAACAATCGAACCTGGTCCAATACTATGTGCAATGCTTTCACT
CCTGAGAACTGAAGAATGCATATGTTCTGACTATTTGGCTATTGTGGGTCATTCTTTGTCAATTTTC
ACCCTAGTGATTTCCCTGGGGATTTTCGTGTTTTTCAGGAGCCTGGCTGCCAAAGGTAACCCTGCAC
AAGAACATGTTTCTTACTTACATTCTGAATTCTATGATTATCATCATCCACCTGGTTGAAGTAGTACCC
AATGGAGAGCTCGTGCGAAGGGACCCGGTGAAGCTGCAAGATTTTGCATTTTTCCACCAGTACATGATG
GCCTGCAACTATTTCTGGATGCTCTGTGAAGGGATCTATCTTCATACACTCATTGTCGTGGCTGTGTTT
ACTGAGAAGCAACGCTTGCGGTGGTATTATCTCTTGGGCTGGGGTTCGCCGTGGTGCCAACCACTATC
CATGCTATTACCAGGGCCGTGACTTCAATGACAACCTGCTGGCTGAGTGTGAAACCCATTTGCTTTAC
ATAATCCATGGACCTGTCATGGCGGCACCTGTGGTCAATTTCTTCTTTTGTCAACATTGTCCGGGTG
CTTGTGACCAAAATGAGGGAAACCCATGAGCGGAATCCACATGTACCTGAAGGCTGTGAAGGCCACC
ATGATCCTTGCCCTGCTGGGAATCCAGTTTGTGCTTTTCCCTGGAGACCTCCAACAAGATGCTT
GGGAAGATATGATTACGTGATGCACTCTGATTCAATTCAGGGCTTCTTTGTTGCGACCATCTAC
TGCTTCTGCAACAATGAGGTCCAACCACCGTGAAGCGCAATGGGCCAATTCAAATTCAGTGGAAC
CAGCGTTGGGGGAGGCGCCCTCCAACCCTCTGCTCGCGCTGCAGCCGCTGCTGCGGAGGCTGGCGAC
ATCCCAATTTACATCTGCCATCAGGAGCTGAGGAATGAACCAGCCAACAACCAAGGCGAGGAGAGTGT
GAGATCATCCCTTTGAATATCATAGAGCAAGAGTCATCTGCTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-Mlul

ACCN: NM_001164738

Insert Size: 1425 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001164738.1](#)

RefSeq Size: 2405 bp

RefSeq ORF: 1425 bp

Locus ID: 799

UniProt ID: [P30988](#)

Cytogenetics: 7q21.3

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 55.3 kDa

Gene Summary: This gene encodes a high affinity receptor for the peptide hormone calcitonin and belongs to a subfamily of seven transmembrane-spanning G protein-coupled receptors. The encoded protein is involved in maintaining calcium homeostasis and in regulating osteoclast-mediated bone resorption. Polymorphisms in this gene have been associated with variations in bone mineral density and onset of osteoporosis. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]

Transcript Variant: This variant (3) differs in the 5' UTR and lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Variants 2 and 3 encode the same isoform (2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.