OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC119074

Calcitonin receptor (CALCR) (NM_001742) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcitonin receptor (CALCR) (NM_001742) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calcitonin receptor
Synonyms:	CRT; CT-R; CTR; CTR1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC119074 sequence for NM_001742 edited (data generated by NextGen Sequencing)

ATGAGGTTCACATTTACAAGCCGGTGCTTGGCACTGTTTCTTCTTCTAAATCACCCAACC
CCAATTCTTCCTGCCTTTTCAAATCAAACCTATCCAACAATAGAGCCCAAGCCATTTCTT
TACGTCGTAGGACGAAAGAAGATGATGGATGCACAGTACAAATGCTATGACCGAATGCAG
CAGTTACCCGCATACCAAGGAGAAGGTCCATATTGCAATCGCACCTGGGATGGATGGCTG
TGCTGGGATGACACACCGGCTGGAGTATTGTCCTATCAGTTCTGCCCAGATTATTTTCCG
GATTTTGATCCATCAGAAAAGGTTACAAAATACTGTGATGAAAAAGGTGTTTGGTTTAAA
CATCCTGAAAACAATCGAACCTGGTCCAACTATACTATGTGCAATGCTTTCACTCCTGAG
AAACTGAAGAATGCATATGTTCTGTACTATTTGGCTATTGTGGGTCATTCTTTGTCAATT
TTCACCCTAGTGATTTCCCTGGGGATTTTCGTGTTTTTCAGGAGCCTTGGCTGCCAAAGG
GTAACCCTGCACAAGAACATGTTTCTTACTTACATTCTGAATTCTATGATTATCATCATC
CACCTGGTTGAAGTAGTACCCAATGGAGAGCTCGTGCGAAGGGACCCGGTGAGCTGCAAG
ATTTTGCATTTTTTCCACCAGTACATGATGGCCTGCAACTATTTCTGGATGCTCTGTGAA
GGGATCTATCTTCATACACTCATTGTCGTGGCTGTGTTTACTGAGAAGCAACGCTTGCGG
TGGTATTATCTCTTGGGCTGGGGGTTCCCGCTGGTGCCAACCACTATCCATGCTATTACC
AGGGCCGTGTACTTCAATGACAACTGCTGGCTGAGTGTGGAAACCCATTTGCTTTACATA
ATCCATGGACCTGTCATGGCGGCACTTGTGGTCAATTTCTTCTTTTTGCTCAACATTGTC
CGGGTGCTTGTGACCAAAATGAGGGAAACCCATGAGGCGGAATCCCACATGTACCTGAAG
GCTGTGAAGGCCACCATGATCCTTGTGCCCCTGCTGGGAATCCAGTTTGTCGTCTTTCCC
TGGAGACCTTCCAACAAGATGCTTGGGAAGATATATGATTACGTGATGCACTCTCTGATT
CATTTCCAGGGCTTCTTTGTTGCGACCATCTACTGCTTCTGCAACAATGAGGTCCAAACC
ACCGTGAAGCGCCAATGGGCCCAATTCAAAATTCAGTGGAACCAGCGTTGGGGGAGGCGC
CCCTCCAACCGCTCTGCTCGCGCTGCAGCCGCTGCTGCGGAGGCTGGCGACATCCCAATT
TACATCTGCCATCAGGAGCCGAGGAATGAACCAGCCAACAACCAAGGCGAGGAGAGTGCT
GAGATCATCCCTTTGAATATCATAGAGCAAGAGTCATCTGCTTGA

Clone variation with respect to NM_001742.3
1340 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001742 unedited
CCCATTTTGTAATACGACTTCACTATAGGGCGGCCGCGATTCGGCACGAGGGGCTGCGCC
GCGCGGCTGGCGGACCTTCCCGGGTTGGAGAAGTGCGCACGTCCGCACCTCACCCTGCGG
CTGACATCTCCTGCCCAGGAGATGGGCGCTGAAGCTTGAGCGCCTGAGTCCCTGGAGCCA
CACCTGCGAACACCCTTTGCTTCTATTGAGCTGTGCCCAGCCGCCCAGTGACAGAATTCC
AGGACAAAGAGATCTTCAAAAACCAAAAATGAGGTTCACATTTACAAGCCGGTGCTTGGC
ACTGTTTCTTCTTCTAAATCACCCAACCCCAATTCTTCCTGCCTTTTCAAATCAAACCTA
TCCAACAATAGAGCCCAAGCCATTTCTTTACGTCGTAGGACGAAAGAAGATGATGGATGC
ACAGTACAAATGCTATGACCGAATGCAGCAGTTACCCGCATACCAAGGAGAAGGTCCATA
TTGCAATCGCACCTGGGATGGATGGCTGTGCTGGGATGACACACCGGCTGGAGTATTGTC
CTATCAGTTCTGCCCAGATTATTTTCCGGATTTTGATCCATCAGANAAGGTTACAAAATA
CTGTGATGAAAAAGGTGTTTGGTTTAAACATCCTGAANACAATCGAACCTGGTCCAACTA
TACTATGTGCAAATGCTTCACTCCTGAGGAACTGAAGAATGCATATGTTCTGTACTATTT
GGCTATTGTGGGTCATTCTTTGTCATTTTTCACCCTAGTGATTTTCCTGGGGATTTTCGT
GTTTTTCAGGAGCCTGGGCTGCCANNAGGTAACCCTGCACAAGAACATGGTTTCTACTTA
CATTCTGAAATCCTATGATATCATCATCCACCTGTTTGAAGTAATACCAATGGAAAGCTC
GTGCCAAGGGACCCCGTGAGCTGCAGGATTTGCATTTTTTCACCAGTCCAGGAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001742 unedited
CGGGGGAATATGAGTNCTCTGTCTTATTTTAACATATACACAAACATAAGCATTTCACAT
AATTTGGGCAGAACTATGTGCAATTCTATAATAAGCTATTTTGTTTTCTTCAACCCCTAC
TATATTAGCATAATAACATCTAAAATATTTTAGCAATATATTATCACATTTGTACCACAG
CTGCCAGAAATACTCTGTTTTCCATGTTTGTAAACAAAAATAGAACAATACTACATAACA
CTGTGATTGGAAAAATACCTTCTTTTCGATCCCCCCCTTACATTCAGTAAAGGAGACTTA
AACTACTTTAGTATCCCAAATTCATTTTCTCTGTAGAAATATAATTAATTTTCTCTGGGT
GCGCTAAATATGTAACCATAACAAATCAATTTATTATCTTTCCACAACTAAATCACTTCT
GAAAGGCAGTGGCAAAATATGACATAGATGAGACTGGAGATTTGGAGGGTTTCAATGTAC
CTCCTCATTTAGCATACAAATTAAATAATGGTAACTCTGATTACTGTTGCAAATTCACAA
ATTAATTTCAGGTGCCAGTAACGATACTGGTTTATTCAGGATTTTCAGAAATCTTATACT
GGGAAGTAAAGAGAGATATGATAATATAATACTGGATTTTAATGAGAAACGTTAAACCTG
AATTGAGTTATGGTTAAATTTGGAGCAGTTAATTTTTTGCCCTCCTGTTTTGGTAATAAC
CAAAACAAAGCGGTCAACGACAGTTTGATTTCCAATTAGGCCCTCCTGGATATTCCGGGG
AAAGCCGTGAACTTTTTTAAGCCTTGAAGCTGGGGGGAAAGCATTAAGGGACTTTGGGGG
GGCTTTTAATAGCAGGAGGAAGGATGTAACCTTACGGGTAGAAGCGCC

Restriction Sites: Please inquire

ACCN: NM_001742

Insert Size: 3900 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).

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_001742.2, NP_001733.1

RefSeq Size: 3470 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

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 (2) 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.