

Product datasheet for **RG228921**

Calcitonin receptor (CALCR) (NM_001164738) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcitonin receptor (CALCR) (NM_001164738) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CALCR
Synonyms:	CRT; CT-R; CTR; CTR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228921 representing NM_001164738
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGTTACATTTACAAGCCGGTGTGGCACTGTTTCTTCTCTAAATCACCAACCCCAATTCTTC
 CTGCCTTTTCAAATCAAACCTATCCAACAATAGAGCCCAAGCATTCTTTACGTCGTAGGACGAAAGAA
 GATGATGGATGCACAGTACAAATGCTATGACCGAATGCAGCAGTTACCCGCATACCAAGGAGAAGGTCCA
 TATTGCAATCGCACCTGGGATGGATGGCTGTGCTGGGATGACACACCGGCTGGAGTATTGCCTATCAGT
 TCTGCCAGATTATTTCCGGATTTTGATCCATCAGAAAAGGTTACAAAATACTGTGATGAAAAAGGTGT
 TTGGTTTAAACATCCTGAAAACAATCGAACCTGGTCCAATACTATGTGCAATGCTTTCCTCCTGAG
 AAAGTGAAGAATGCATATGTTCTGTACTATTTGGCTATTGTGGGTCACTTTTGCAATTTTACCCTAG
 TGATTTCCCTGGGATTTTCGTGTTTTTTCAGGAGCCTTGGCTGCCAAAGGGAACCCTGCACAAGAACAT
 GTTTCTTACTTACATTCTGAATTCTATGATTATCATCATCCACCTGGTTGAAGTAGTACCAATGGAGAG
 CTCGTGCGAAGGGACCCGGTGGCTGCAAGATTTTGCATTTTTTCCACCAAGTACATGATGGCCTGCAACT
 ATTTCTGGATGCTCTGTGAAGGGATCTATCTTACACTCATTGTCTGGCTGTGTTTACTGAGAAAGCA
 ACGCTTGGCGGTGATTATCTCTTGGGCTGGGGTTCCCGCTGGTGCCAACCACTATCCATGCTATTACC
 AGGGCCGTGACTTCAATGACAACCTGCTGGCTGAGTGTGGAACCCATTTGCTTTACATAATCCATGGAC
 CTGTGATGGCGGCACTTGTGGTCAATTTCTTCTTTTGTCAACATTGTCGGGTGCTTGTGACCAAAAT
 GAGGGAACCCATGAGGCGGAATCCACATGTACCTGAAGGCTGTGAAGGCCACCATGATCCTTGTGCC
 CTGCTGGGAATCCAGTTTGTGCTTTCCCTGGAGACCTTCCAACAAGATGCTTGGGAAGATATATGATT
 ACGTGATGCACTCTGATTCAATTTCCAGGGCTTCTTTGTGCGACCATCTACTGCTTTCGCAACAATGA
 GGTCCAACACCGTGAAGCGCCAATGGGCCAATTCAAAATTCAGTGGAAACCGCTTGGGGGAGGCGC
 CCCTCCAACCGCTGCTGCTCGCGCTGCAGCCGCTGCTGCGGAGGCTGGCGACATCCCAATTTACATCTGCC
 ATCAGGAGCTGAGGAATGAACGAGCAACAACCAAGGCGAGGAGTGTGAGATCATCCCTTTGAATAT
 CATAGAGCAAGAGTCATCTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228921 representing NM_001164738
 Red=Cloning site Green=Tags(s)

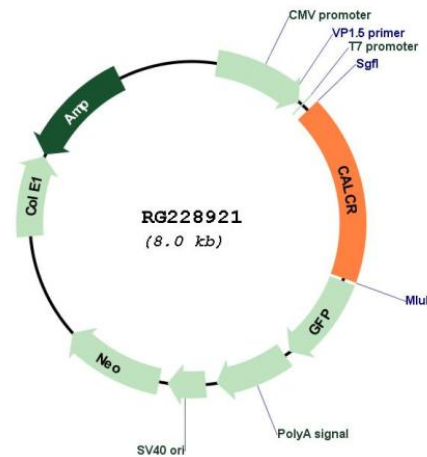
MRFTFTSRCLALFLLLNHPTPILPAFSNQTYPTIEPKPFLYVVGRRKMMDAQYKCYDRMQQLPAYQGEGP
 YCNRTWDGWLCDWDTAGVLSYQFCPDYFPDFPSEKVTKYCDEKGVWFKHPENNRTWSNYTMCNAFTPE
 KLKNAYVLYLLAIVGHSLSIFTLVISLGFVFFRSLGCQRVTLHKNMFLTYILNSMIIIIHLVEVVPNGE
 LVRRDPVSCILHFFHQYMMACNYFWMLCEGIYLHTLIVVAVFTEKQRLRWYYLLGWGFPLVPTTIIHAIT
 RAVYFNDNCWLSVETHLLYIIHGPMVAALVYVNFLLNIVRVLVTKMRETHEAESMYLKAVKATMILVP
 LLGIQFVVPWRPSNMKLGKIYDYVMHSLIHFQGGFFVATIIYFCNNEVQTTVKRQWAQFKIQWNQRWGRR
 PSNRSARAAAAAAEAGDIPYIYICHQELRNEPANNQGEESAIEIPLNIEQESSA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001164738

ORF Size: 1422 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:	<ol style="list-style-type: none">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:	<u>NM_001164738.1, NP_001158210.1</u>
RefSeq Size:	3610 bp
RefSeq ORF:	1425 bp
Locus ID:	799
UniProt ID:	<u>P30988</u>
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]