

Product datasheet for **SC329284**

Calcium Sensing Receptor (CASR) (NM_001178065) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcium Sensing Receptor (CASR) (NM_001178065) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calcium Sensing Receptor
Synonyms:	CAR; EIG8; FHH; FIH; GPRC2A; hCasR; HHC; HHC1; HYPOC1; NSHPT; PCAR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC329284 sequence for NM_001178065 edited (data generated by NextGen Sequencing)

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ATGGCATTATAGCTGCTGCTGGGTCCTCTTGGCACTCACCTGGCACACCTCTGCCTACGGCCAGACC
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ACTCACCTTTGTGCTGTCTGTCCCTCCAGGTGCCCTTCTCCAAGTGCAGCCGAGACTGCCTGGCAGGGACC
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CGGCCAGAGGTGGAGGACCCTGAAGAGTTGTCCCAGCACTTGTAGTGTCCAGTTCACAGAGCTTTGTCA
TCAGTGGTGGAGGCAGCACTGTTACAGAAAACGTAGTGAATTCATAA
    
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Clone variation with respect to NM_001178065.1

Restriction Sites:

Please inquire

ACCN:

NM_001178065

Insert Size:

3300 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:	<u>NM_001178065.1, NP_001171536.1</u>
RefSeq Size:	5011 bp
RefSeq ORF:	3267 bp
Locus ID:	846
UniProt ID:	<u>P41180</u>
Cytogenetics:	3q13.33-q21.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	<p>The protein encoded by this gene is a plasma membrane G protein-coupled receptor that senses small changes in circulating calcium concentration. The encoded protein couples this information to intracellular signaling pathways that modify parathyroid hormone secretion or renal cation handling, and thus this protein plays an essential role in maintaining mineral ion homeostasis. Mutations in this gene are a cause of familial hypocalciuric hypercalcemia, neonatal severe hyperparathyroidism, and autosomal dominant hypocalcemia. [provided by RefSeq, Aug 2017]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). 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.</p>