

Product datasheet for RC230646

Calcium Sensing Receptor (CASR) (NM_001178065) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcium Sensing Receptor (CASR) (NM_001178065) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calcium Sensing Receptor
Synonyms:	CAR; EIG8; FHH; FIH; GPRC2A; hCasR; HHC; HHC1; HYPOC1; NSHPT; PCAR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC230646 representing NM_001178065 Red=Cloning site Blue=ORF Green=Tags(s)

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ATGGCATTATAGCTGCTGCTGGGTCCTCTTGGCACTCACCTGGCACACCTCTGCCTACGGCCAGACC
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ATCATCAACTGGCACCTCTCCCCAGAGGATGGCTCCATCGTGTAAAGGAAGTCGGGTATTACAACGTCT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC230646 representing NM_001178065
 Red=Cloning site Green=Tags(s)

MAFYSCCWLLALTWHTSAYGPDQRAQKKGDIILGGLFPIHFVAAKDQDLKSRPESVEICIRYNFRGFRW
 LQAMIFAIEEINSSPALLPNLTLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLDFCNCSEHIPSTIA
 VVGATGSGVSTAVANLLGLFYIPQVSYASSRLLSNKNQFKSFLRTIPNDEHQATAMADIEYFRWNWVG
 TIAADDDYGRPGIEKFREEAEERDIDFSELISQYSDEEEIQHVVEVIQNSTAKVIVVFSGGPDLEPLI
 KEIVRRNITGKIWLASEAWASSLIAMPQYFHVVGTTIGFALKAGQIPGFREFLKKVHPRKSVHNGFAKE
 FWEETFNCHLQEGAKGPLPVDFTLRGHEESGDRFSNSSTAFRPLCTGDENISSVETPYIDYTHLRISYNY
 YLAVYSIAHALQDIYTCLPGRGLFTNGSCADIKKVEAWQVLKHLRHLNFTNNMGEQVTFDECGDLVGNYS
 IINWHLSPEDGSIVFKEVGYNNVYAKKGERLFINEEKILWSGFSREPLTFVLSVLQVFPFNCSRDLAGT
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 CISCILVKTNRVLLVFEAKIPTSFRKRWGLNLQFLLVFLCTFMQIVICVIWLYTAPPSSYRNQELEDEI
 IFITCHEGSLMALGFLIGYTCLLAAICFFFAFKSRKLPENFNEAKFITFMSLIFFIWISFIPAYASTYG
 KFVSAVEVIAILAASFGLLACIFFNKIYIILFKPSRNTIEEVRCSTAHAHFKVAARATLRRSNVSRKRSS
 SLGGSTGSPSSSISKSNSDEPFQPERQKQQPLALTLQQEQQQPLTLQQQRQQPRCKQKQVIFGS
 GTVTFSLSFDEPQKNAMHRNSTHQNSLEAQKSSDTLTRHQPLPLQCGETDLDLTVQETGLQGPVGGDQ
 RPEVEDPEELSPALVVSSQSFSVISGGGSTVTENVVNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3486_f12.zip

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_001178065.1](#), [NP_001171536.1](#)

RefSeq Size: 5011 bp

RefSeq ORF: 3267 bp

Locus ID: 846

UniProt ID: [P41180](#)

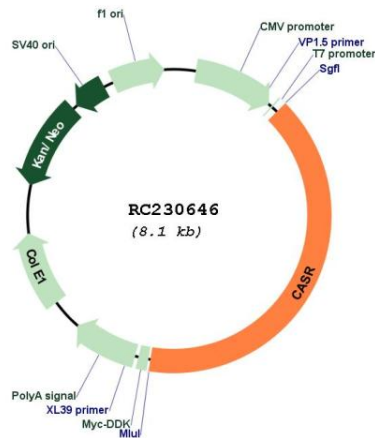
Cytogenetics: 3q13.33-q21.1

Protein Families: Druggable Genome, GPCR, Transmembrane

MW: 121.8 kDa

Gene Summary: 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]

Product images:



Circular map for RC230646