

Product datasheet for RC202507

C5orf19 (REEP2) (NM_016606) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C5orf19 (REEP2) (NM_016606) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C5orf19
Synonyms:	C5orf19; SGC32445; SPG72; Yip2d
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202507 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCCTGGATCATCTCTCGCTGGTGGTGCATCTTTGGCACCTGTACCCAGCCTATTCTTCTCT
ACAAGGCCGTGAAGACAAAAACGTGAAGGAATATGTGAAATGGATGATGTACTGGATCGTCTTTGCCTT
CTTACCACGGCCGAGACGCTCACGGATATAGTGTCTCCTGGTCCCCTTCTACTTTGAACTGAAGATC
GCCTTCGTGATATGGCTGCTGTCCCCTTACACCAAGGGCTCCAGCGTGTCTACCGCAAGTTCGTGCACC
CAACGCTGTCCAACAAGGAGAAGGAGATCGACGAGTACATCACGCAGGCCGAGACAAGAGCTATGAGAC
CATGATGAGGGTGGGCAAGAGGGCCTGAACCTTGCCGCAATGCTGCAGTCACAGCTGCCGCAAGGGG
GTGCTGTGAGAGAAGCTCCGCAGCTTACAGATGCAGGACCTGACCCCTGATCCGGGACGAGGACGACTGC
CCCTGCAGAGGCCTGACGGCCGCTCCGACCCAGCCCTGGCAGCCTCCTGGACACCATCGAGGACTTAGG
AGATGACCCTGCCCTGAGTCTAAGGTCCAGCACAAACCCGAGATTCCCGGACAGAGGCTTCTGAGGAT
GACATGGGAGACAAAGCTCCAAGAGGGCCAAACCCATCAAAAAAGCGCCAAAGCTGAGCCACTGGCTT
CCAAGACTGAAGACCCGGCCCAAGAAGAAGACCTCTGGCGGGGGCGACTCAGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202507 protein sequence
 Red=Cloning site Green=Tags(s)

MVSWIISRLVVLIFGTLYPAYSSYKAVKTKNVKEYVKWMMYWIVFAFTTAETLTDIVLSWFFPYFELKI
 AFVIWLLSPYTKGSSVL YRKFVHPTLSNKEKEIDEYITQARDKSYETMMRVGKRLNLAANAAVTAAAKG
 VLSEKLRSFSMQDLTLIRDEDALPLQRPDGLRSPSPGSLLDLIEDLGDDPALSLRSSTNPADSRTEASED
 DMGDKAPKRAKPIKKAPKAEPLASKTLKTRPKKKTSGGGDSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6410_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_016606

ORF Size: 756 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016606.4](#)

RefSeq Size: 2203 bp

RefSeq ORF: 759 bp

Locus ID: 51308

UniProt ID: [Q9BRK0](#)

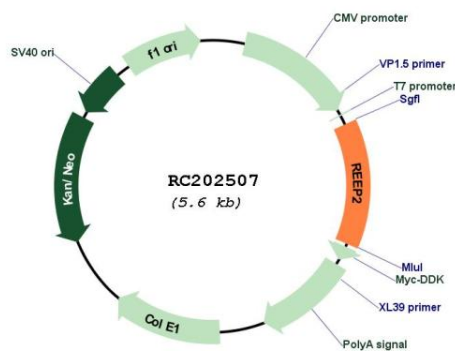
Cytogenetics: 5q31.2

Protein Families: Druggable Genome, Transmembrane

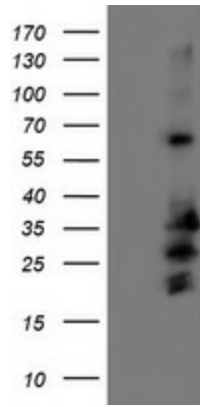
MW: 28.3 kDa

Gene Summary: This gene encodes a member of the receptor expression enhancing protein family. Studies of a related gene in mouse suggest that the encoded protein is found in the cell membrane and enhances the function of sweet taste receptors. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]

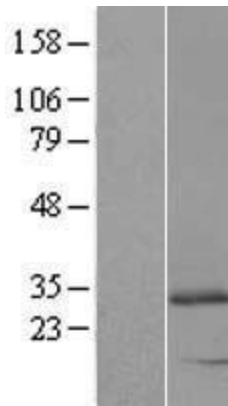
Product images:



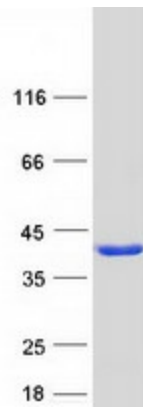
Circular map for RC202507



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY REEP2 (Cat# RC202507, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-REEP2 (Cat# [TA504323]). Positive lysates [LY413861] (100ug) and [LC413861] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY413861]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202507 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified REEP2 protein (Cat# [TP302507]). The protein was produced from HEK293T cells transfected with REEP2 cDNA clone (Cat# RC202507) using MegaTran 2.0 (Cat# [TT210002]).