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Product datasheet for RC233562

C5orf19 (REEP2) (NM_001271803) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C5orf19 (REEP2) (NM_001271803) 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:

>RC233562 representing NM_001271803
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGTCCTGGATCATCTCTCGCCTGGTGGTGCTCATCTTTGGCACCCTGTACCCAGCCTATTCTTCCT
ACAAGGCCGTGAAGACAAAAAACGTGAAGGAATATGTGAAATGGATGATGTACTGGATCGTCTTTGCCTT
CTTCACCACGGCCGAGACGCTCACGGATATAGTGCTCTCCTGGTTCCCCTTCTACTTTGAACTGAAGATC
GCCTTCGTGATATGGCTGCTGTCCCCTTACACCAAGGGCTCCAGCGTGCTCTACCGCAAGTTCGTGCACC
CAACGCTGTCCAACAAGGAGAAGGAGATCGACGAGTACATCACGCAGGCCCGAGACAAGAGCTATGAGAC
CATGATGAGGGTGGGCAAGAGGGGCCTGAACCTTGCCGCCAATGCTGCAGTCACAGCTGCCGCCAAGGGC
CAGGGGGTGCTGTCAGAGAAGCTCCGCAGCTTCAGCATGCAGGACCTGACCCTGATCCGGGACGAGGACG
CACTGCCCCTGCAGAGGCCTGACGGCCGCCTCCGACCCAGCCCTGGCAGCCTCCTGGACACCATCGAGGA
CTTAGGAGATGACCCTGCCCTGAGTCTAAGGTCCAGCACAAACCCGGCAGATTCCCGGACAGAGGCTTCT
GAGGATGACATGGGAGACAAAGCTCCCAAGAGGGCCAAACCCATCAAAAAAGCGCCCAAAGCTGAGCCAC
TGGCTTCCAAGACACTGAAGACCCGGCCCAAGAAGAAGACCTCTGGCGGGGGCGACTCAGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

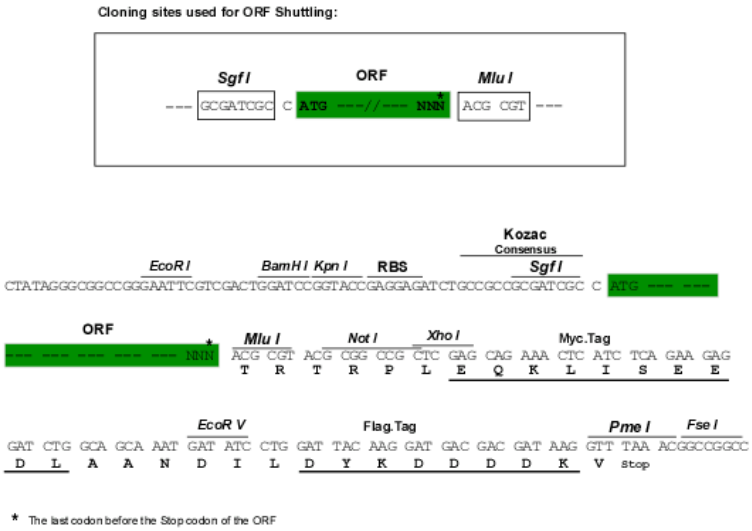
>RC233562 representing NM_001271803
Red=Cloning site Green=Tags(s)

MVSWIISRLVVLIFGTLYPAYSSYKAVKTKNVKEYVKWMMYWIVFAFFTTAETLTDIVLSWFPFYFELKI
AFVIWLLSPYTKGSSVLYRKFVHPTLSNKEKEIDEYITQARDKSYETMMRVGKRGLNLAANAAVTAAAKG
QGVLSEKLRSFSMQDLTLIRDEDALPLQRPDGRLRPSPGSLLDTIEDLGDDPALSLRSSTNPADSRTEAS
EDDMGDKAPKRAKPIKKAPKAEPLASKTLKTRPKKKTSGGGDSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001271803

ORF Size: 762 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: NM_001271803.2

RefSeq Size: 2209 bp

RefSeq ORF: 765 bp

Locus ID: 51308

UniProt ID: Q9BRK0

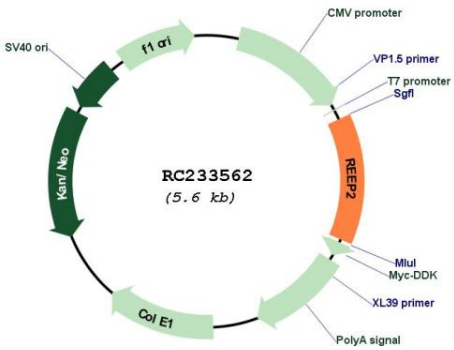
Cytogenetics: 5q31.2

Protein Families: Druggable Genome, Transmembrane

MW: 28.9 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 RC233562