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Product datasheet for RC211024

TAS2R40 (NM_176882) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R40 (NM_176882) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAS2R40
Synonyms:	GPR60; T2R40; T2R58
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC211024 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAACGGTGAACACAGATGCCACAGATAAAGACATATCCAAGTTCAAGGTCACCTTCACTTTGGTGG
TCTCCGGAATAGAGTGCATCACTGGCATCCTTGGGAGTGGCTTCATCACGGCCATCTATGGGGCTGAGTG
GGCCAGGGGCAAAACACTCCCCACTGGTGACCGCATTATGTTGATGCTGAGCTTTTCCAGGCTCTTGCTA
CAGATTTGGATGATGCTGGAGAACATTTTCAGTCTGCTATTCCGAATTGTTTATAACCAAAACTCAGTGT
ATATCCTCTTCAAAGTCATCACTGTCTTTCTGAACCATTCCAATCTCTGGTTTGCTGCCTGGCTCAAAGT
CTTCTATTGTCTTAGAATTGCAAACTTCAATCATCCTTTGTTCTTCCTGATGAAGAGGAAAATCATAGTG
CTGATGCCTTGGCTTCTCAGGCTGTCAGTGTTGGTTTCCTTAAGCTTCAGCTTTCCTCTCTCGAGAGATG
TCTTCAATGTGTATGTGAATAGCTCCATTCCTATCCCCTCCTCCAACTCCACGGAGAAGAAGTACTTCTC
TGAGACCAATATGGTCAACCTGGTATTTTTCTATAACATGGGGATCTTCGTTCCTCTGATCATGTTCATC
CTGGCAGCCACCCTGCTGATCCTCTCTCTCAAGAGACACACCCTACACATGGGAAGCAATGCCACAGGGT
CCAGGGACCCCAGCATGAAGGCTCACATAGGGGCCATCAAAGCCACCAGCTACTTTCTCATCCTCTACAT
TTTCAATGCAATTGCTCTATTTCTTTCCACGTCCAACATCTTTGACACTTACAGTTCCTGGAATATTTTG
TGCAAGATCATCATGGCTGCCTACCCTGCCGGCCACTCAGTACAACTGATCTTGGGCAACCCTGGGCTGA
GAAGAGCCTGGAAGCGGTTTCAGCACCAAGTTCCTCTTTACCTAAAAGGGCAGACTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC211024 protein sequence
Red=Cloning site Green=Tags(s)

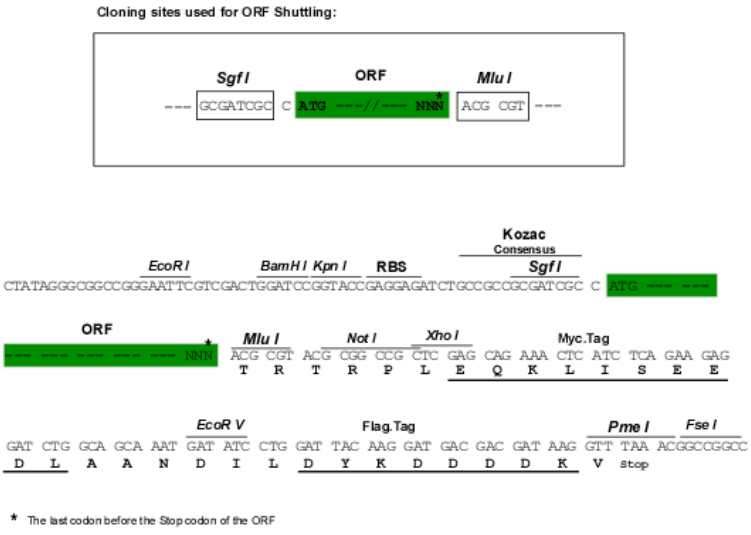
MATVNTDATDKDISKFKVTFTLVVSGIECITGILGSGFITAIYGAEWARGKTLPTGDRIMLMLSFSRLLL
QIWMMLENIFSLLFRIVYNQNSVYILFKVITVFLNHSNLWFAAWLKVFYCLRIANFNHPLFFLMKRKIIV
LMPWLLRLSVLVSLSFSFPLSRDVFNVYVNSSIPIPSSNSTEKKYFSETNMVNLVFFYNMGIFVPLIMFI
LAATLLILSLKRHTLHMGSNATGSRDPSMKAHIGAIKATSYFLILYIFNAIALFLSTSNIFDTYSSWNIL
CKIIMAAYPAGHSVQLILGNPGLRRAWKRFQHQVPLYLKGQTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6372_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_176882

ORF Size: 969 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.

RefSeq: NM_176882.2

RefSeq Size: 972 bp

RefSeq ORF: 972 bp

Locus ID: 259286

UniProt ID: P59535

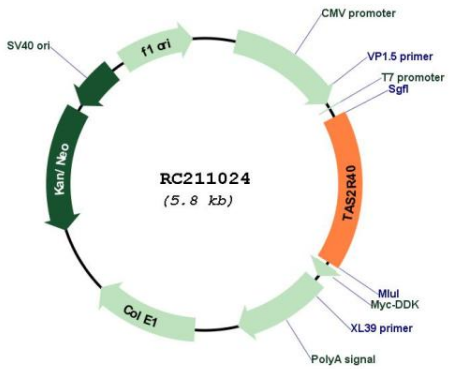
Cytogenetics: 7q34

Protein Pathways: Taste transduction

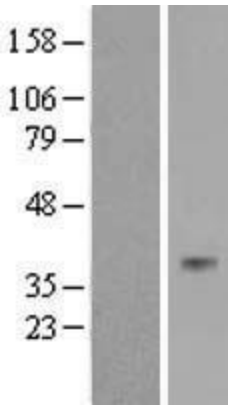
MW: 36.8 kDa

Gene Summary: This gene encodes a member of the bitter taste receptor family which belong to the G protein-coupled receptor superfamily and are predominantly expressed in taste receptor cells of the tongue and palate epithelia. This intronless taste receptor gene encodes a seven-transmembrane receptor protein, functioning as a bitter taste receptor. This gene is clustered together with eight other taste receptor genes on chromosome 7. A decrease in the expression of this gene is associated with hypogeusia. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RC211024



Western blot validation of overexpression lysate (Cat# [LY406136]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211024 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).