

Product datasheet for RC212432

TAS1R1 (NM_177541) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS1R1 (NM_177541) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAS1R1
Synonyms:	candidate taste receptor T1R1; gm148; GPR70; Gpr70; G protein-coupled receptor 70; OTTMUSP00000011121; sweet taste receptor T1r; T1R1; T1r1; taste receptor, type 1, member 1; TR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212432 representing NM_177541 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCTGCTCTGCACGGCTCGCCTGGTCGGCCTGCAGCTTCTCATTCTGCTGCTGGCCTTTGCTGCC
ATAGCACGGAGTCTTCTCCTGACTTCACCTCCCGGAGATTACCTCCTGGCAGGCCTGTTCCCTCTCCA
TTCTGGCTGTCTGCAGGTGAGGCACAGACCCGAGGTGACCCTGTGTGACAGGTCTGTAGCTTCAATGAG
CATGGCTACCACCTCTTCCAGGCTATGCGGCTTGGGGTTGAGGAGATAAACAACCTCCACGGCCCTGCTGC
CCAACATCACCTGGGGTACCAGCTGTATGATGTGTGTTCTGACTCTGCCAATGTGTATGCCACGCTGAG
AGTGCTCTCCCTGCCAGGGCAACACCACATAGAGCTCCAAGGAGACCTTCTCCACTATCCCTACGGTG
CTGGCAGTGATTGGCCTGACAGCACCAACCGTGTGCCACCACAGCCGCCCTGCTGAGCCCTTTCCTGG
TGCCCATGCTTTGGAGCAGATCCACAAGGTGCATTTCTTCTACACAAGGACTGTGGCGTTAATGA
CAACAGAGATCCCCTCAGTAGCTATAACATAATTGCCCTGGGACTGGAATGGACCAAGTGGACCTTACAG
GTCCCTCGTTTCTCCACATGGTCTCCAGTTCAGCTAAACATAAATGAGACCAAAATCCAGTGGCAGCGAA
AGGACAACCAGGTGCCTAAGTCTGTGTGTTCCAGCGACTGTCTTGAAGGGCACCAGCGAGTGGTTACGGG
TTTCCATCACTGCTGCTTTGAGTGTGTGCCCTGTGGGGCTGGGACCTTCTCAACAAGAGTGCTACCTGG
GTAAGGACTTGCCAGAGAACTACAACGAGGCCAAATGTGTACCTTCAGCCTGCTTCAACTTCGTGTC
CTGGATCGCTTCTTACCACGGCCAGCGTCTACGACGGCAAGTACCTGCCTGCGGCCAACA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212432 representing NM_177541
Red=Cloning site Green=Tags(s)

MLLCTARLVGLQLLISCCWAFACHSTESSPDFLPGDYLLAGLFPLHSGCLQVRHRPEVTLCDRSCSFNE
 HGYHLFQAMRLGVEEINNSTALLPNITLGYQLYDVCSDSANVYATLRVLSLPGQHHIELQGDLLHYSPTV
 LAVIGPDSTNRAATTAALLSPFLVPMLEQIHKVHFLHKDTVAFNDRDPLSSYNIIAWDWNPKWTF
 VLGSSTWSPVQLNINETKIQWHGKDNQVPKSVCSDDCLEGHQRVVTGFHHCCFECVPCGAGTFLNKSATV
 VRTCQRITTRPNVSPSACSSTSCPGSPSPRPASTTASTCLRPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8052_b11.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_177541

ORF Size: 972 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_177541.1](#), [NP_803885.1](#)

RefSeq Size: 1302 bp

RefSeq ORF: 974 bp

Locus ID: 80835

Cytogenetics: 1p36.31

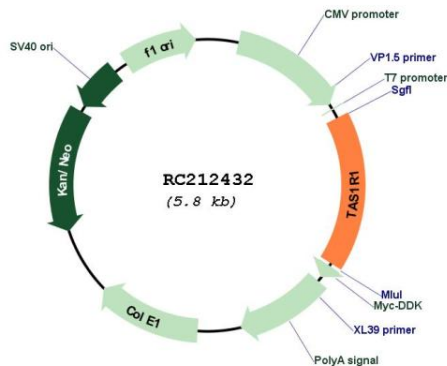
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Taste transduction

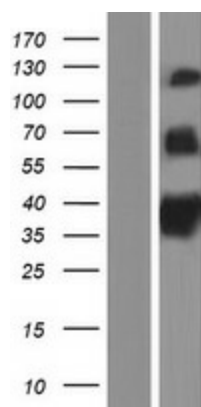
MW: 35.4 kDa

Gene Summary: The protein encoded by this gene is a G protein-coupled receptor and is a component of the heterodimeric amino acid taste receptor T1R1+3. The T1R1+3 receptor responds to L-amino acids but not to D-enantiomers or other compounds. Most amino acids that are perceived as sweet activate T1R1+3, and this activation is strictly dependent on an intact T1R1+3 heterodimer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RC212432



Western blot validation of overexpression lysate (Cat# [LY406077]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212432 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).