

Product datasheet for RC211209

TAS2R38 (NM_176817) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAS2R38 (NM_176817) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAS2R38
Synonyms:	PTC; T2R38; T2R61; THIOT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211209 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTGACTCTAACTCGCATCCGCACTGTGTCCTATGAAGTCAGGAGTACATTTCTGTTCATTTTCAGTCC
TGGAGTTTGCAGTGGGGTTTCTGACCAATGCCTTCGTTTTCTTGGTGAATTTTGGGATGTAGTGAAGAG
GCAGGCACTGAGCAACAGTGATTGTGTGCTGCTGTGTCTCAGCATCAGCCGGCTTTTCTGCATGGACTG
CTGTTCTGAGTGCTATCCAGCTTACCCACTTCCAGAAGTTGAGTGAACCACTGAACCACAGCTACCAAG
CCATCATCATGCTATGGATGATTGCAAACCAAGCCAACCTCTGGCTTGCTGCCTGCCTCAGCCTGCTTTA
CTGCTCCAAGCTCATCCGTTTCTCTCACACCTTCTGATCTGCTTGGCAAGCTGGGTCTCCAGGAAGATC
TCCAGATGCTCCTGGGTATTATTCTTTGCTCCTGCATCTGCACTGTCCTCTGTGTTTGGTCTTTTTTA
GCAGACCTCACTTACAGTCACTCACTGTGCTATTCATGAATAACAATAACAAGGCTCAACTGGCAGATTAA
AGATCTCAATTTATTTTATTCCTTTCTCTTCTGCTATCTGTGGTCTGTGCCTCCTTTCTATTGTTTCTG
GTTTCTTCTGGGATGCTGACTGTCTCCCTGGGAAGGCACATGAGGACAATGAAGGTCTATACCAGAACT
CTCGTGACCCAGCCTGGAGGCCACATTAAGCCCTCAAGTCTTGTCTCCTTTTTCTGCTTCTTTGT
GATATCATCCTGTGTTGCCTTCTCTGTGCCCTACTGATTCTGTGGCGGACAAAATAGGGGTGATG
GTTTGTGTTGGGATAATGGCAGCTTGTCCCTCTGGCATGCAGCCATCCTGATCTCAGGCAATGCCAAGT
TGAGGAGAGCTGTGATGACCATTCTGCTCTGGGCTCAGAGCAGCCTGAAGGTAAGAGCCGACCACAAGGC
AGATTCCTCGGACACTGTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_176817.4](#)

RefSeq Size: 1143 bp

RefSeq ORF: 1002 bp

Locus ID: 5726

UniProt ID: [P59533](#)

Cytogenetics: 7q34

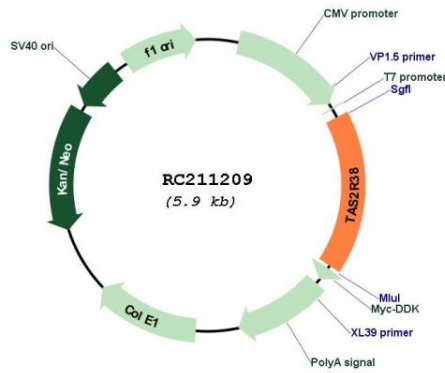
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Taste transduction

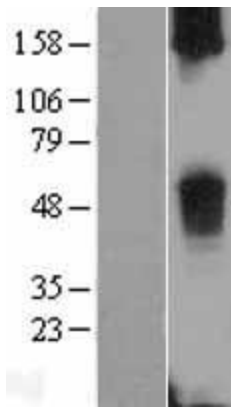
MW: 37.9 kDa

Gene Summary: This gene encodes a seven-transmembrane G protein-coupled receptor that controls the ability to taste glucosinolates, a family of bitter-tasting compounds found in plants of the Brassica sp. Synthetic compounds phenylthiocarbamide (PTC) and 6-n-propylthiouracil (PROP) have been identified as ligands for this receptor and have been used to test the genetic diversity of this gene. Although several allelic forms of this gene have been identified worldwide, there are two predominant common forms (taster and non-taster) found outside of Africa. These alleles differ at three nucleotide positions resulting in amino acid changes in the protein (A49P, A262V, and V296I) with the amino acid combination PAV identifying the taster variant (and AVI identifying the non-taster variant). [provided by RefSeq, Oct 2009]

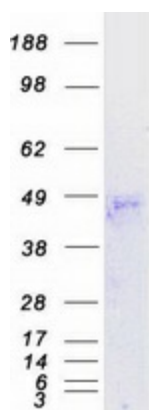
Product images:



Circular map for RC211209



Western blot validation of overexpression lysate (Cat# [LY403589]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211209 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TAS2R38 protein (Cat# [TP311209]). The protein was produced from HEK293T cells transfected with TAS2R38 cDNA clone (Cat# RC211209) using MegaTran 2.0 (Cat# [TT210002]).