

Product datasheet for **TP311209M**

TAS2R38 (NM_176817) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human taste receptor, type 2, member 38 (TAS2R38), 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC211209 protein sequence
Red=Cloning site **Green**=Tags(s)

MLTLTRIRTVSYEVRSTFLFISVLEFAVGFLTNAFVFLVNFWDVVKRQALSNSDCVLLCLISRFLHGL
LFLSAIQLTHFQKLSEPLNHSYQAIIMLWMIANQANLWLAACLSLLYCSKLIRFSHTFLICLASWVSRKI
SQMLLGII LCSCICTVLCVWCFFSRPHFTVTTVLFMNNNTRLNWQIKDLNLFYSFLFCYLWSVPPFLFL
VSSGMLTVSLGRHMRTMKVYTRNSRDPSEAHIKALKSLVSFFCFVISSCVAFISVPLLILWRDKIGVM
VCVGIMAACPSGHAAILISGNAKLRRAVMTILLWAQSSLKVRADHKADSR TLC

TRTRPLE**Q**KLISEEDLAANDILDYKDDDDK**V**

Tag: C-Myc/DDK

Predicted MW: 37.7 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_789787](#)

Locus ID: 5726



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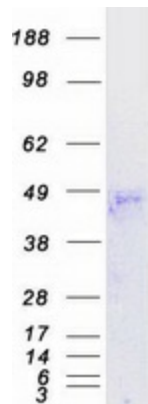
UniProt ID: [P59533](#)
RefSeq Size: 1143
Cytogenetics: 7q34
RefSeq ORF: 999
Synonyms: PTC; T2R38; T2R61; THIOT

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]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Taste transduction

Product images:



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]).