

## Product datasheet for **TP311209**

### **TAS2R38 (NM\_176817) Human Recombinant Protein**

#### Product data:

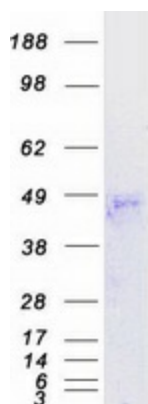
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human taste receptor, type 2, member 38 (TAS2R38), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211209 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MLTLTRIRTVSYEVRSTFLFISVLEFAVGFLTNAFVFLVNFWDVVKRQALSNSDCVLLCLISRLFLHGL LFLSAIQLTHFQKLSEPLNHSYQAIIMLWMIANQANLWLAACLSLLYCSKLIRFSHTFLICLASWVSRKI SQMLLGII LCSCICTVLCVWCFFSRPHFTVTTVLFMNNNTRLNWQIKDLNLFYSFLFCYLWSVPPFLLFL VSSGMLTVSLGRHMRTMKVYTRNSRDP SLEAHIKALKSLVSFFCFFVISSCVAFISVPLLILWRDKIGVM VCVGIMAACPSGHAAILISGNAKLRRAVMTILLWAQSSLKVRADHKADSRTL C</p> <p><b>TR</b>TRPLE<b>QKLISEEDLAANDILDYKDDDDKV</b></p>
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:	<u><a href="#">NP_789787</a></u>
Locus ID:	5726



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UniProt ID:	<u>P59533</u>
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]).