

## Product datasheet for **RR204761**

### Tas2r138 (NM\_001024685) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tas2r138 (NM\_001024685) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tas2r138  
**Synonyms:** T2R38; Tas2r38  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR204761 representing NM\_001024685  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTTGACTCTGACTCCCGTCTTAAGTGTGCTTATGAAGCCAAGATTTTCATTCTGTTCTTTCCGTGG  
TGGAGTTTGCAGTGGGAATCATGGCCAATGCCTTCATTGTCTTGGTAACTTTTGGGACATGGTAAAAA  
GCAGCCGTTGAACAACACTGTGACATCGCACTGCTTTGTCTCAGCATCACCCGGCTTTCTGCAGGGCCTT  
CTCCTTCTGGATGCTATCCAGCTTGCTGCTTCCAGCAGATGAAAGACCCACTAAGCCACAACACTACCAAG  
CCATCCTCACTCTCTGGATGATCGAAACCAAGTGAGCCTCTGGCTTGCTGCCTGCCTCAGTCTCCTCTA  
CTGCGCCAAGATTGTCGGTTTCTCTCACACCTCCCACTTCACTTAGCAAGCTGGGTCTCCAGAAGATT  
CTCCAGATGCTTCTAGTTGCTCTTTTCTCCGGCGTCTGCACTGCCCTCTGTTTGTGGGACTTTTTTA  
GCAGATCTCACACCGTGGTCACATCCATGTTGCACATGAACAACAGAAATCAATCTGCAAATGAAAA  
ACTCAATTTCTTTACTCGTTTGTCTTCTGCAATGTGGGCTCTGTGCCCTTCTCTAGTTTTCTTGATT  
TCCTCCGGAGTGTGTTATCTCCCTGGGAAATCACATGAGAACTATGAAGTCCAAACAGAGGCTCTC  
GTGACCCAGCCTTGAGGCCATGTGAGGCCATCATATTTCTGGTCTCCTTTCTGTTTTATGTGGT  
GTCATTCTGTGCCGCTTTAATATCAATACCCTTACTGGTACTGTGGCACAATAAGGGAGGAGTGATGGTC  
TGATAGGGATGATGGCAGCCTGCCCTTCTGGACATGCAGCCATCCTGATATCAGGCAATGCCAAGCTGA  
AGAAGGTCAAGTGACCATTTCTATTCTGGTTTCAAAGCAGGCAAAAGGTGAGAAGAGTCCACAAGTTCT  
TCCAGGATACTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR204761 representing NM\_001024685  
Red=Cloning site Green=Tags(s)

MLTLTPVLTVSYEAKISFLFSLVVEFAVGIMANAFIVLVNFWDMVKKQPLNNCIDIALLCISITRFLQGL  
 LLLDAIQLACFQQMKDPLSHNYQAILTLWMIANQVSLWLAACL SLLYCAKIVRFSHTFPLHLASWVSRRF  
 LQMLLVALLFSGVCTALCLWDFFSRSHTVVTSMLHMNTEFNLQIEKLNFFYSFVFCNVGSVPPSLVFLI  
 SSGVLVISLGNHMRTMKSQTRGSRDPSLEAHVRAIIFLVSF LCFYVVSFCAALISIPLLVLWHNKGGMV  
 CIGMMAACPSGHAAILISGNAKLVIVITILFWFQSRQKVRVRVHKVLPRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

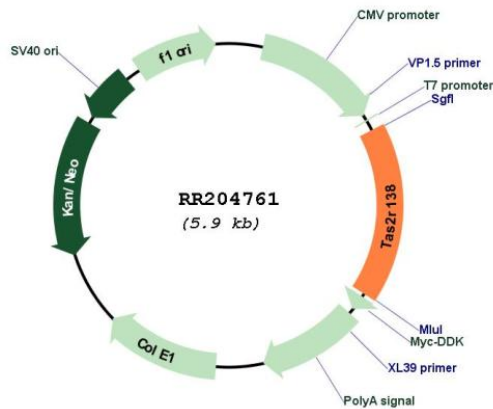
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001024685

**ORF Size:** 993 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001024685.1</a> , <a href="#">NP_001019856.1</a>
<b>RefSeq Size:</b>	996 bp
<b>RefSeq ORF:</b>	996 bp
<b>Locus ID:</b>	500091
<b>UniProt ID:</b>	<a href="#">Q4VHE7</a>
<b>Cytogenetics:</b>	4q23
<b>MW:</b>	37.3 kDa
<b>Gene Summary:</b>	Putative taste receptor which may play a role in the perception of bitterness. [UniProtKB/Swiss-Prot Function]