

## Product datasheet for RC213598

### GPR102 (TAAR8) (NM\_053278) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR102 (TAAR8) (NM_053278) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR102
Synonyms:	GPR102; TA5; TaR-5; TaR-8; TAR5; TRAR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213598 representing NM_053278 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCAGCAATTTTTCCCAACCTGTTGTGCAGCTTTGCTATGAGGATGTGAATGGATCTTGATTGAAA  
CTCCCTATTCTCCTGGGTCCCGGTAATTCTGTACACGGCGTTAGCTTTGGGTCTTTGCTGGCTGTATT  
TGGAAATCTCTTAGTAATGACTTCTGTTCTTCATTTAAGCAGCTGCACTCTCCAACCAATTTTCTCATT  
GCCTCTCTGGCCTGTGCTGACTTCTGGTAGGTGTGACTGTGATGCTTTTCAGCATGGTCAGGACGGTGG  
AGAGCTGCTGGTATTTGGAGCCAAATTTGACTCTTCACAGTTGCTGTGATGTGGCATTGTTACTC  
TTCTGTCTCCACTTGTGCTTCATCTGCATCGACAGGTACATTGTGGTACTGATCCCCTGGTCTATGCT  
ACCAAGTTCACCGTGTCTGTGTCGGGAATTTGCATCAGCGTGTCTGGATTCTGCCTCTCACGTACAGCG  
GTGCTGTGTTCTACACAGGTGTCAATGATGATGGGCTGGAGGAATTAGTAAGTGCTCTCAACTGCGTAGG  
TGGCTGTCAAATATTGTAAGTCAAGGCTGGGTGTTGATAGATTTTCTGTTATTCTTCATACCTACCCTT  
GTTATGATAATCTTTACAGTAAGATTTTCTTATAGCTAAACAACAAGCTATAAAAATTGAAACTACTA  
GTAGCAAAGTAGAATCATCTCAGAGAGTTATAAAATCAGAGTGGCCAAGAGAGAGAGAAAGCAGCTAA  
AACCTGGGGTACGGTACTAGCATTTGTTATTTTCATGGTACCGTATACAGTTGATATATTAATTGAT  
GCCTTTATGGGCTTCTGACCCCTGCCTATATCTATGAAATTTGCTGTTGGAGTCTTATTATAACTCAG  
CCATGAATCCTTTGATTTATGCTCTATTTTATCCTTGGTTAGGAAAGCCATAAACTTATTTAAAGTGG  
AGATGTTTTAAAGGCTAGTTCATCAACCATTAGTTTATTTTAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC213598 representing NM\_053278  
Red=Cloning site Green=Tags(s)

MTSNFSQPVVQLCYEDVNGSCIETPYPSPGSRVILYTAFSFGSLLAVFGNLLVMTSVLHFKQLHSPTNFLI  
 ASLACADFLVGVTVMLFSMVRTVESCWYFGAKFCTLHSCCDVAFCYSSVLHLCFICIDRYIVVTDPLVYA  
 TKFTVSVSGICISVSWILPLTYSGAVFYTGVDNDDGLEELVSALNCVGGCQIIVSQGWLIDFLFFIPTL  
 VMILYLSKIFLIAKQQAIIKTIETSSKVESSSESYKIRVAKRERKAAKTLGVTVLAFVISWLPYTVDILID  
 AFMGFLTPAYIYEICCSAYYNSAMNPLIYALFYPWFRKAIKLILSGDVLKASSSTISLFLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6118\\_f04.zip](https://cdn.origene.com/chromatograms/mk6118_f04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_053278

**ORF Size:** 1026 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\\_053278.2](#)

**RefSeq Size:** 1029 bp

**RefSeq ORF:** 1029 bp

**Locus ID:** 83551

**UniProt ID:** [Q969N4](#)

**Cytogenetics:** 6q23.2

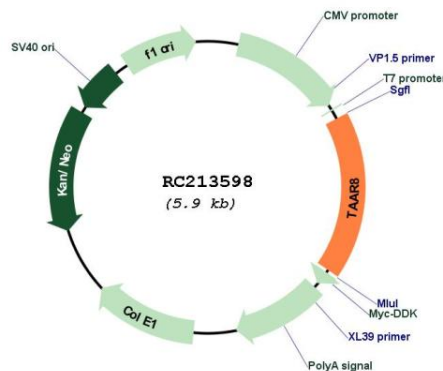
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**MW:** 37.8 kDa

**Gene Summary:** This gene is part of the trace amine receptor cluster on chromosome 6 and encodes an orphan G-protein coupled receptor. Upregulated expression of this gene in astroglial cells upon exposure to lipopolysaccharides suggests a function for the encoded protein in the brain. [provided by RefSeq, Jul 2016]

## Product images:



Circular map for RC213598