

## Product datasheet for **RG213598**

### **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:	TurboGFP
Symbol:	GPR102
Synonyms:	GPR102; TA5; TaR-5; TaR-8; TAR5; TRAR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213598 representing NM_053278 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCAGCAATTTTTCCCAACCTGTTGTGCAGCTTTGCTATGAGGATGTGAATGGATCTTGTATTGAAA  
CTCCCTATTCTCCTGGGTCCCGGTAATTCTGTACACGGCGTTAGCTTTGGGTCTTTGCTGGCTGTATT  
TGGAAATCTCTTAGTAATGACTTCTGTTCTTCATTTAAGCAGCTGCACTCTCCAACCAATTTTCTCATT  
GCCTCTCTGGCCTGTGCTGACTTCTTGGTAGGTGTGACTGTGATGCTTTTCAGCATGGTCAGGACGGTGG  
AGAGCTGCTGGTATTTTGGAGCCAAATTTGTAAGTCTTACAGTTGCTGTGATGTGGCATTGTTACTC  
TTCTGTCTCCACTTGTGCTTCATCTGCATCGACAGGTACATTGTGGTACTGATCCCCTGGTCTATGCT  
ACCAAGTTCACCGTGTCTGTGTCGGGAATTTGCATCAGCGTGTCTGGATTCTGCCTCTCACGTACAGCG  
GTGCTGTGTTCTACACAGGTGTCAATGATGATGGGCTGGAGGAATTAGTAAGTGCTCTCAACTGCGTAGG  
TGGCTGTCAAATATTGTAAGTCAAGGCTGGGTGTTGATAGATTTTCTGTTATTCTTCATACCTACCCTT  
GTTATGATAATCTTTACAGTAAGATTTTCTTATAGCTAAACAACAAGCTATAAAAAATTGAAACTACTA  
GTAGCAAAGTAGAATCATCTCAGAGAGTTATAAAATCAGAGTGGCCAAGAGAGAGAGGAAAGCAGCTAA  
AACCTGGGGTACGGTACTAGCATTTGTTATTTTCATGGTACCGTATACAGTTGATATATTAATTGAT  
GCCTTTATGGGCTTCTGACCCCTGCCTATATCTATGAAATTTGCTGTTGGAGTGCTTATTATAACTCAG  
CCATGAATCCTTTGATTTATGCTCTATTTTATCCTTGGTTAGGAAAGCCATAAACTTATTTAAAGTGG  
AGATGTTTTAAAGGCTAGTTCATCAACCATTAGTTTTATTTTAGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

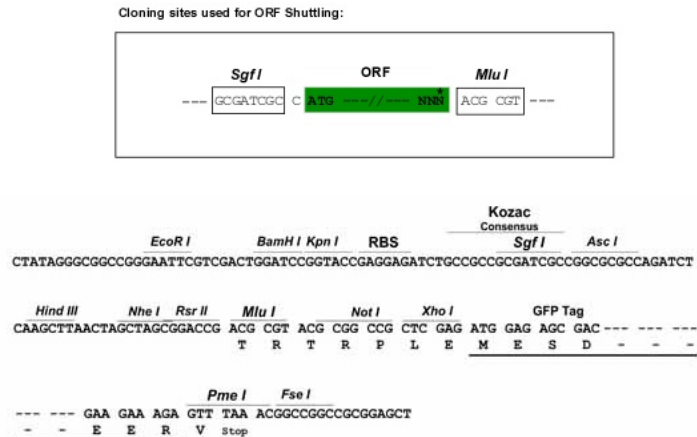
**Protein Sequence:** >RG213598 representing NM\_053278  
 Red=Cloning site Green=Tags(s)

MTSNFSQPVVQLCYEDVNGSCIETPYSPGSRVILYTAFSFGSLLAVFGNLLVMTSVLHFKQLHSPTNFLI  
 ASLACADFLVGVTVMLFSMVRTVESCWYFGAKFCTLHSCCDVAFCYSSVLHLFCICIDRYIVVTDPLVYA  
 TKFTVSVSGICISVSWILPLTYSGAVFYTGVNDDGLEELVSALNCVGGCQIIVSQGWLIDFLFFIPTL  
 VMILYISKIFLIAKQQAIAKIETTSSKVESSSESYKIRVAKRERKAAKTLGVTVLAFVISWLPYTVDILID  
 AFMGFLTPAYIYEICCSAYYNSAMNPLIYALFYFWRKAIKLILSGDVLKASSSTISLFLE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_053278

**ORF Size:** 1026 bp

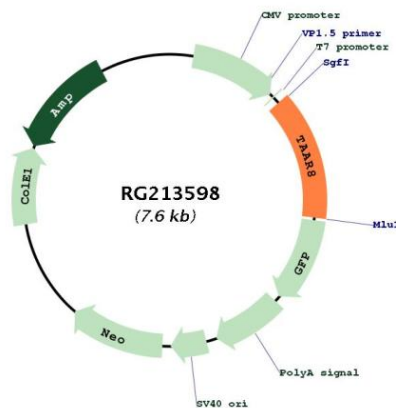
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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:	<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>
RefSeq:	<a href="#">NM_053278.2</a>
RefSeq Size:	1029 bp
RefSeq ORF:	1029 bp
Locus ID:	83551
UniProt ID:	<a href="#">Q969N4</a>
Cytogenetics:	6q23.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
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 RG213598