

## Product datasheet for **MG225090**

### Taar1 (NM\_053205) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Taar1 (NM\_053205) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Taar1  
**Synonyms:** taR-1; Tar1; Trar1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG225090 representing NM\_053205  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCATCTTTGCCACGCTATCACAAACATTTCCACAGAAACAGCGACTGGTCAAGAGAAGTCCAAGCTT  
 CCCTGTACAGCTTAATGTCACCTATAATCCTGGCCACTCTGGTTGGCACTTAATAGTAATAATTTCCAT  
 ATCCCATTTCAAGCAACTTCATACACCCACCAACTGGCTCCTTCACTCCATGGCCATTGTCGACTTTCTG  
 CTGGGCTGTCTGATAATGCCCTGCAGCATGGTGAAGACTGTTGAGCGCTGTTGGTATTTGGGAAATCC  
 TCTGTAAGTTTACACCAGCACCATATCATGCTGAGCTCGCCTCCATTTCCACTTAGCTTTTCATTTT  
 CATTGACCGCTACTGTGCTGTGTGTGACCTTTGAGATACAAAGCCAAGTCAATATCTCCACTATTCTT  
 GTGATGATCCTCGTTAGTTGGAGCCTTCTGCTGTTTATGCATTTGGGATGATCTTCTGGAAGTGAAGT  
 TAAAAGGAGTGAAGAGCTGTATCGCAGTCAGGTGAGCGACCTGGGCGGCTGTTCTCCCTCTTTAGTAA  
 AGTATCTGGGGTACTGGCGTTTCACTTCTTATATACCTGGATCTGTTATGTTATTTGTTTACTAT  
 AGGATATATTTTATAGCTAAAGGACAAGCAAGTCAATCAATCGTACGAATGTTCAAGTTGGATTGGAAG  
 GAAAAAGCAAGCACCACAAAGCAAGGAAACAAAAGCCGGAAGACCTTAGGGATCATGGTGGCGTTTTT  
 CCTCGTATGCTGGTGCCCGTTCTTTCTCTGCACGGTCTGGACCTTTCTGGGCTATGTTATCCACCC  
 TCTCTGAATGACGCACTGTATTGGTTTGGTACTTGAATTCTGCCCTCAATCCGATGGTTTATGCCTTTT  
 TCTATCCCTGGTTTCAAGAGCCTTGAAGATGGTCTCCTTGGTAAAATTTTCAAAAAGATTTCATCTAG  
 GCTAAGCTATTTTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225090 representing NM\_053205  
 Red=Cloning site Green=Tags(s)

MHLCHAITNISHRNSDWSREVQASLYSLMSLIILATLVGNLIVIIISISHFKQLHTPTNLLHSMIAIVDFL  
 LGCLIMPCSMVRTVERCWYFGEILCKVHTSTDIMLSSASIFHLAFISIDRYCAVCDPLRYKAKINISTIL  
 VMILVSWSLPAVYAFGMIFLELNLKGEELYRSQVSDLGCCSPFFSKVSGVLAFMTSFYIPGSVMLFVYY  
 RIYFIAKQARSINRTNVQVGLGKSQLAPQSKETKAAKTLGIMVGVFLVCWCPFFLCTVLDPFLGVYVIPP  
 SLNDALYWFGLNSALNPMVYAFFYPWFRRALKMVLGKIFQKSSRSKFLFL

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1904\\_e02.zip](https://cdn.origene.com/chromatograms/ja1904_e02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_053205

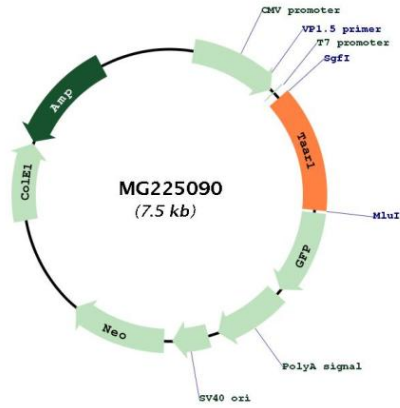
**ORF Size:** 996 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<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_053205.1</a> , <a href="#">NP_444435.1</a>
<b>RefSeq Size:</b>	999 bp
<b>RefSeq ORF:</b>	999 bp
<b>Locus ID:</b>	111174
<b>UniProt ID:</b>	<a href="#">Q923Y8</a>
<b>Cytogenetics:</b>	10 A4
<b>Gene Summary:</b>	Receptor for trace amines, including beta-phenylethylamine (b-PEA), p-tyramine (p-TYR), octopamine and tryptamine, with highest affinity for b-PEA and p-TYR. Unresponsive to classical biogenic amines, such as epinephrine and histamine and only partially activated by dopamine and serotonin. Trace amines are biogenic amines present in very low levels in mammalian tissues. Although some trace amines have clearly defined roles as neurotransmitters in invertebrates, the extent to which they function as true neurotransmitters in vertebrates has remained speculative. Trace amines are likely to be involved in a variety of physiological functions that have yet to be fully understood. The signal transduced by this receptor is mediated by the G(s)-class of G-proteins which activate adenylate cyclase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225090