

Product datasheet for **RG211034**

TA1 (TAAR1) (NM_138327) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TA1 (TAAR1) (NM_138327) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TA1
Synonyms:	TA1; TAR1; TRAR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211034 representing NM_138327 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCCCTTTTGCCACAATATAATTAATATTTCTGTGTGAAAAACAACCTGGTCAAATGATGTCCGTG
CTTCCCTGTACAGTTTAATGGTGCTCATAATTCTGACCACACTCGTTGGCAATCTGATAGTTATTGTTTC
TATATCACACTTCAAACAACCTTCATACCCCAACAAATGGCTCATTCCATGGCCACTGTGGACTTT
CTTCTGGGGTGTCTGGTCATGCCTTACAGTATGGTGAGATCTGCTGAGCACTGTTGGTATTTGGAGAAG
TCTTCTGTAATAATCACACAAGCACCGACATTATGCTGAGCTCAGCCTCCATTTCCATTTGTCTTTCAT
CTCCATTGACCGCTACTATGCTGTGTGTGATCCACTGAGATATAAAGCCAAGATGAATATCTTGGTTATT
TGTGTGATGATCTTCATTAGTTGGAGTGTCCCTGCTGTTTTTGCATTTGGAATGATCTTTCTGGAGCTAA
ACTTCAAAGGCGCTGAAGAGATATATTACAACATGTTCACTGCAGAGGAGGTTGCTCTGTCTTCTTTAG
CAAAATATCTGGGGTACTGACCTTTATGACTTCTTTTTATATACCTGGATCTATTATGTTATGTGTCTAT
TACAGAATATATCTTATCGCTAAAGAACAGGCAAGATTAATTAGTGATGCCAATCAGAAGCTCAAATTTG
GATTGAAATGAAAAATGGAATTCACAAAGCAAAGAAAGGAAAGCTGTGAAGACATTGGGGATTGTGAT
GGGAGTTTTCTAATATGCTGGTGCCCTTTCTTTATCTGTACAGTCATGGACCCTTTCTCACTACATT
ATCCACCTACTTTGAATGATGTATTGATTTGGTTTGGCTACTTGAACCTACATTTAATCCAATGGTTT
ATGCATTTTCTATCCTTGGTTTAGAAAAGCACTGAAGATGATGCTGTTTGGTAAAAATTTCCAAAAAGA
TTCATCCAGGTGTAATTTATTTTGAATTGAGTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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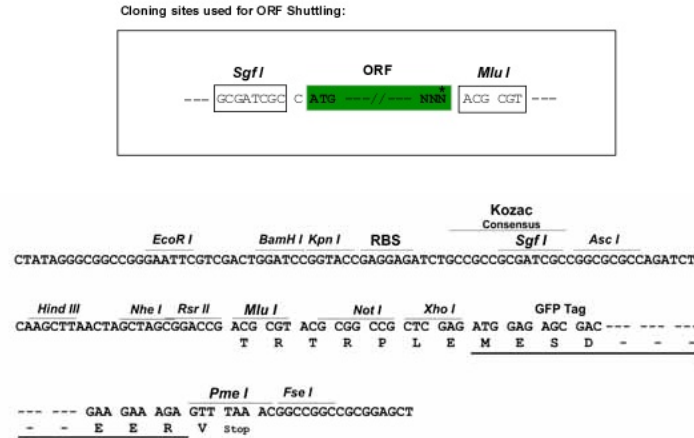
Protein Sequence: >RG211034 representing NM_138327
Red=Cloning site Green=Tags(s)

MMPFCHNIINISCVKNNWSNDVRASLYSLMVLIIITTLVGNLIVIVSISHFKQLHPTNWLIIHSMATVDF
 LLGCLVMPYSMVRSAEHCWYFGEVFCIKHTSTDIMLSSASIFHLFSISIDRYAVCDPLRYKAKMNLVI
 CVMIFISWSVPVFAFGMIFLELNFKGAEEIYYKHVHCRGGCSVFFSKIISGLTFMTSFYIPGSIMLCVY
 YRIYLIAKEQARLISDANQKLQIGLEMKNGISQSKERKAVKTLGIVMGVFLICWCPFFICTVMDPFLHYI
 IPPTLNDVLIWFGYLNSTFNPMVYAFFYPWFRKALKMMLFGKIFQKSSRCKLFLELSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138327

ORF Size: 1017 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_138327.4](#)

RefSeq Size: 1020 bp

RefSeq ORF: 1020 bp

Locus ID: 134864

UniProt ID: [Q96RJ0](#)

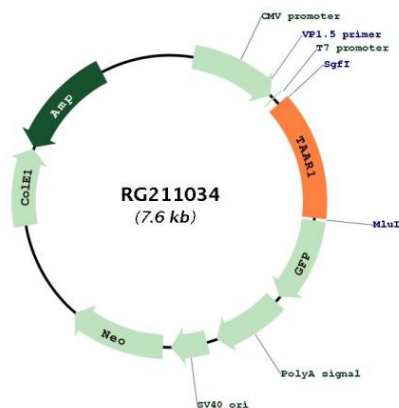
Cytogenetics: 6q23.2

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: The protein encoded by this gene is a G-protein coupled receptor activated by trace amines. The encoded protein responds little or not at all to dopamine, serotonin, epinephrine, or histamine, but responds well to beta-phenylethylamine, p-tyramine, octopamine, and tryptamine. While primarily functioning in neurologic systems, there is evidence that this gene is involved in blood cell and immunologic functions as well. This gene is thought to be intronless. [provided by RefSeq, Nov 2015]

Product images:



Circular map for RG211034