

Product datasheet for **RG218295**

PNR (TAAR5) (NM_003967) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PNR
Synonyms:	PNR
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG218295 representing NM_003967
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAGCTGTCTTCATCCAAGGTGCTGAAGAGCACCTGCGGCATTCTGCTACCAGGTGAATGGGTCTT
GCCCCAGGACAGTACATACTCTGGGCATCCAGTTGGTCATCTACCTGGCCTGTGCAGCAGGCATGCTGAT
TATCGTGCTAGGGAATGATTTGTGGCATTGCTGTGCTCTACTTCAAAGCGCTTCACACGCCACCAAC
TTCTGTGCTCTCCCTGGCCTGGCTGACATGTTCTGGGTCTGCTGGTGTGCCCTCAGCACCATTCT
GCTCAGTGGAGAGCTGCTGGTTCTTCGGGGACTTCCTCTGCCGCTGCACACCTACCTGGACACCTCTT
CTGCCTCACCTCCATCTTCCATCTCTGTTTCATTTCATTGACCGCCACTGTGCCATCTGTGACCCCTG
CTCTATCCCTCCAAGTTCACAGTGAGGGTGGCTCTCAGGTACATCCTGGCAGGATGGGGGTGCCCGCAG
CATACACTTCGTTATTCCTCTACACAGATGTGGTAGAGACAAGGCTCAGCCAGTGGCTGGAAGAGATGCC
TTGTGTGGGCAAGTTCAGCTGCTGCTCAATAAATTTGGGGTGGTTAACTTCCTTTGTTCTTTGTC
CCCTGCCTCATTATGATCAGCTTGATGTGAAGATCTTTGTGGTTGCTACCAGACAGGCTCAGCAGATTA
CCACATTGAGCAAAAGCCTGGCTGGGGTGCCAAGCATGAGAGAAAAGTGCCTGCAAGACCTGGGCATTGC
TGTGGGCATATACCTCTTGTGCTGGCTGCCCTTACCATAGACAGATGGTCGACAGCCTCCTTCACTTT
ATCACACCCCACTGGTCTTTGACATCTTTATCTGGTTTGCTTACTTCAACTCAGCCTGCAACCCCATCA
TCTATGTCTTTTCTACAGTGGTTTCGGAAGGCACTGAACTCACACTGAGCCAGAAGGTCTTCTCACC
GCAGACACGCACTGTTGATTTGTACCAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



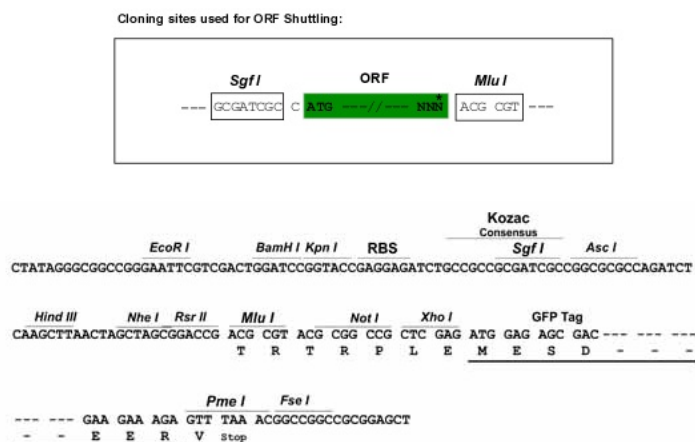
Protein Sequence: >RG218295 representing NM_003967
Red=Cloning site Green=Tags(s)

MRAVFIQGAEEHPAAFQYQVNGSCPRTVHTLGIQLVIYLACAAGMLIIVLGNVFVAFVSYFKALHTPTN
 FLLSLALADMFLGLLVPLSTIRSVESCWFFGDFLCRLHTYLDTLFCLTSIFHLFCISIDRHCACDPL
 VPKSFTYVRVLRILAGWGPAAATSLFLYTDVVETRLSQWLEEMPCVGSQCLLNKFGWGLNFPLFFV
 PCLIMISLYVALFYVATRAQQITTL SKLAGAAKHKAAKTLGIAVGIYLLCWL PFTIDTMVDSLHFI
 ITPPLVDFDIWFAYFNSACNIIYVFSYQWFRKALKTL SOKVFSPOTRTVDLYOE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003967

ORF Size: 1011 bp

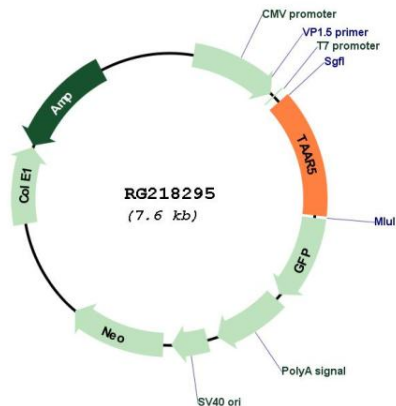
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_003967.2</u>
RefSeq Size:	1014 bp
RefSeq ORF:	1014 bp
Locus ID:	9038
UniProt ID:	<u>O14804</u>
Cytogenetics:	6q23.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	Olfactory receptor specific for trimethylamine, a trace amine. Also activated at lower level by dimethylethylamine. Trimethylamine is a bacterial metabolite found in some animal odors, and to humans it is a repulsive odor associated with bad breath and spoiled food. This receptor is probably mediated by the G(s)-class of G-proteins which activate adenylate cyclase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG218295