

Product datasheet for RC218295

PNR (TAAR5) (NM_003967) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PNR (TAAR5) (NM_003967) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PNR
Synonyms:	PNR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218295 representing NM_003967 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAGAGCTGTCTTCATCCAAGGTGCTGAAGAGCACCCCTGCGGCATTCTGCTACCAGGTGAATGGTCTT
GCCCCAGGACAGTACATACTCTGGGCATCCAGTTGGTCATCTACCTGGCCTGTGCAGCAGGCATGCTGAT
TATCGTGCTAGGGAATGATTTGTGGCATTGCTGTGCTCCTACTCAAAGCGCTTACACGCCACCAAC
TTCTGCTGCTCCCTGGCCCTGGCTGACATGTTTCTGGGTCTGCTGGTGTGCCCTCAGCACCATTC
GCTCAGTGAGAGCTGCTGGTTCTCGGGGACTTCTCTGCCCTGCACACCTACCTGGACACCCTCTT
CTGCCTCACCTCCATCTCCATCTCTGTTTCATTTCATTGACCGCCACTGTGCCATCTGTGACCCCTG
CTCTATCCCTCCAAGTTCACAGTGAGGGTGGCTCTCAGGTACATCCTGGCAGGATGGGGGTGCCCGCAG
CATACTTCGTTATTCCTCTACACAGATGTGGTAGAGACAAGGCTCAGCCAGTGGCTGGAAGAGATGCC
TTGTGTGGGCAGTTGCCAGCTGCTGCTCAATAAATTTGGGGCTGGTTAAACTTCCCTTTGTTCTTTGTC
CCCTGCCTCATTATGATCAGCTTGTATGTGAAGATCTTTGTGGTGTCTACCAGACAGGCTCAGCAGATTA
CCACATTGAGCAAAAGCCTGGCTGGGGCTGCCAAGCATGAGAGAAAAGCTGCCAAGACCTGGGCATTGC
TGTGGGCATATACCTCTGTGCTGGCTGCCCTTACCATAGACACGATGGTCGACAGCCTCCTTCACTTT
ATCACACCCCACTGGTCTTTGACATCTTATCTGGTTTACTTCAACTCAGCCTGCAACCCCATCA
TCTATGTCTTTTCTACAGTGGTTTCGGAAGGCACTGAAACTCACACTGAGCCAGAAGGTCTTCTACC
GCAGACACGCACTGTTGATTTGTACCAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218295 representing NM_003967
 Red=Cloning site Green=Tags(s)

MRAVFIQGAEHPAAFQVNGSCPRTVHTLGIQLVIYLACAAGMLIIVLGNVFAVAVSYFKALHTPTN
 FLLLSLALADMFLGLLVLPLSTIRSVESCWFFGDFLCRLHTYLDTLFCLTSIFHLCFISIDRHCAICDPL
 LYPKFTVRVALRYILAGWGVPAAYTSLFLYTDVVETRLSQWLEEMPCVGCQQLLLNKFVGWLNFPFFV
 PCLIMISLYVKIFVVATRQAQQITTLKSLAGAAKHERKAAKTLGIAVGIYLLCWLPTIDTMVDSLLHF
 ITPPLVFDIFIWFAYFNSACNPIIYVFSYQWFRKALKLTLKQVFSQPQTRTVDLVYQE

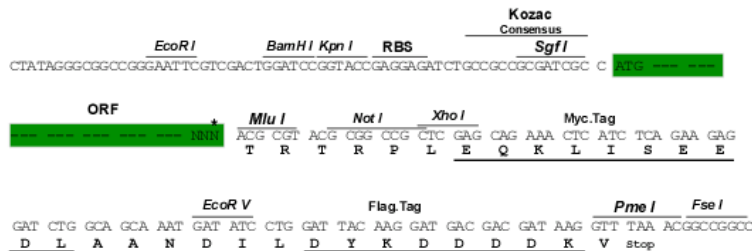
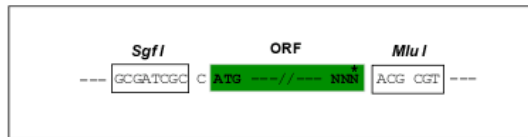
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6110_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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.

RefSeq: [NM_003967.2](#)

RefSeq Size: 1014 bp

RefSeq ORF: 1014 bp

Locus ID: 9038

UniProt ID: [O14804](#)

Cytogenetics: 6q23.2

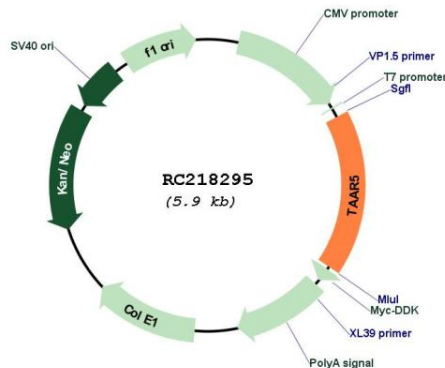
Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

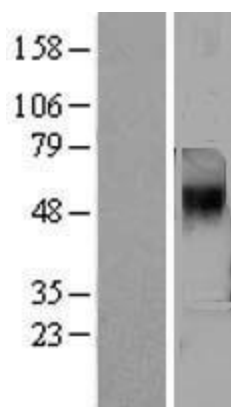
MW: 38.1 kDa

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 RC218295



Western blot validation of overexpression lysate (Cat# [LY401302]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218295 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).