

Datasheet for ABIN4926074

## Human OR4N5 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR4N5
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

### Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human OR4N5 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	927 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGAAACAC AGAACCTCAC AGTGGTGACA GAATTCATTC TTCTTGGTCT GACCCAGTCT CAAGATGCTC AACTTCTGGT CTTTGTGCTA GTCTTAATTT TCTACCTTAT CATCCTCCCT GGAAATTTCC TCATCATTTT CACCATAAAG TCAGACCCTG GGCTCACAGC CCCCCTCTAT TTCTTTCTGG GCAACTTGGC CTTACTGGAT GCATCCTACT CCTTCATTGT GGTCCCAGG ATGTTGGTGG ACTTCCTCTC TGAGAAGAAG GTAATCTCCT ATAGAAGCTG CATCACTCAG

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## Product Details

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CTCTTTTTCT TGCATTTTCT TGGAGCGGGA GAGATGTTCC TCCTCGTTGT GATGGCCTTT  
GACCGCTACA TCGCCATCTG CCGGCCTTTA CACTATTCAA CCATCATGAA CCCTAGAGCC  
TGCTATGCAT TATCGTTGGT TCTGTGGCTT GGGGGCTTTA TCCATTCCAT TGTACAAGTA  
GCCCTTATCC TGCACCTGCC TTTCTGTGGC CCAAACCAGC TCGATAACTT CTTCTGTGAT  
GTTCCACAGG TCATCAAGCT GGCCTGCACC AATACCTTTG TGGTGGAGCT TCTGATGGTC  
TCCAACAGTG GCCTGCTCAG CCTCCTGTGC TTCCTGGGCC TTCTGGCCTC CTATGCAGTC  
ATCCTCTGTC GTATAAGGGA GCACTCCTCT GAAGGAAAGA GCAAGGCTAT TTCCACATGC  
ACCACCCATA TTATCATTAT ATTTCTCATG TTTGGACCTG CTATTTTCAT CTACACTTGC  
CCCTTCCAGG CTTTCCCAGC TGACAAGGTA GTTTCTCTTT TCCATACTGT CATCTTTTCT  
TTGATGAACC CTGTTATTTA TACGCTTCGC AACCAGGAGG TGAAAGCTTC CATGAGGAAG  
TTGTTAAGTC AACATATGTT TTGCTGA

Specificity: ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology

Characteristics: Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.

Sequencing Primer: 

- Forward primer: 5'-TAATACGACTCACTATAGGG-3'
- Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'

Grade: End-sequenced

Components: The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

## Target Details

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Gene: OR4N5

Alternative Name: OR4N5 ([OR4N5 Products](#))

Background: Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008].

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## Target Details

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Gene ID: 390437

NCBI Accession: [NM\\_001004724](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Storage: RT/-20 °C

Storage Comment:

- Keep the vial sealed and store at -20°C for long-term storage.
- Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
- Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
- If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
- Close the lid and vortex the vial for 1 minute.
- Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.

Expiry Date: 12 months

## Publications

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)