

Datasheet for ABIN4926076

## Human OR4N2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR4N2
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 OR4N2 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	924 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGAAAGCG AGAACAGAAC AGTGATAAGA GAATTCATCC TCCTTGGTCT GACCCAGTCT CAAGATATTC AGCTCCTGGT CTTTGTGCTA GTTTTAATAT TCTACTTCAT CATCCTCCCT GGAAATTTTC TCATTATTTT CACCATAAAG TCAGACCCTG GGCTCACAGC CCCCCTCTAT TTCTTTCTGG GCAACTTGGC CTTCTGGAT GCATCCTACT CCTTCATTGT GGCTCCCCGG ATGTTGGTGG ACTTCCTCTC TGCGAAGAAG ATAATCTCCT ACAGAGGCTG CATCACTCAG

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## Product Details

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CTCTTTTTCT TGCACCTCCT TGGAGGAGGG GAGGGATTAC TCCTTGTTGT GATGGCCTTT  
GACCGCTACA TCGCCATCTG CCGGCCTCTG CACTATCCTA CTGTCATGAA CCCTAGAACC  
TGCTATGCAA TGATGTTGGC TCTGTGGCTT GGGGGTTTTG TCCACTCCAT TATCCAGGTG  
GTCCTCATCC TCCGCTTGCC TTTTTGTGGC CCAAACCAGC TGGACAACCT CTTCTGTGAT  
GTCCACAGG TCATCAAGCT GGCCTGCACC GACACATTTG TGGTGGAGCT TCTGATGGTC  
TTCAACAGTG GCCTGATGAC ACTCCTGTGC TTTCTGGGGC TTCTGGCCTC CTATGCAGTC  
ATTCTTTGTC GCATACGAGG GTCTTCTTCT GAGGCAAAA ACAAGGCCAT GTCCACGTGC  
ATCACCCATA TCATTGTTAT ATTCTTCATG TTTGGACCTG GCATCTTCAT CTACACGCGC  
CCCTTCAGGG CTTTCCCAGC TGACAAGGTG GTTTCTCTCT TCCACACAGT GATTTTTCT  
TTGTTGAATC CTGTCATTTA TACCCTTCGC AACCAGGAAG TGAAAGCTTC CATGAAAAAG  
GTGTTTAATA AGCACATAGC CTGA

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: OR4N2

Alternative Name: OR4N2 ([OR4N2 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 seven-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, Mar 2014].

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## Target Details

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Gene ID: 390429

NCBI Accession: [NM\\_001004723](#)

## 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)