

Datasheet for ABIN4926093

## Human OR4D2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR4D2
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 OR4D2 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:	ATGGAACAG GGAACCTCAC GTGGGTATCA GACTTTGTCT TCCTGGGGCT CTCGCAGACT CGGGAGCTCC AGCGTTTCCT GTTTCTAATG TTCCTGTTG TCTACATCAC CACTGTTATG GGAACATCC TTATCATCAT CACAGTGACC TCTGATTCCC AGCTCCACAC ACCCATGTAC TTTCTGCTCC GAAACCTGGC TGTCTAGAC CTCTGTTTCT CTTACAGTCAC TGCTCCCAAA ATGCTAGTGG ACCTCCTCTC TGAGAAGAAA ACCATCTCTT ACCAGGGCTG CATGGGTCAG

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## Product Details

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ATCTTCTTCT TCCACTTTTT GGGAGGTGCC ATGGTCTTCT TCCTCTCAGT GATGGCCTTT  
GACCGCCTCA TTGCCATCTC CCGGCCCTC CGCTATGTCA CCGTCATGAA CACTCAGCTC  
TGGGTGGGGC TGGTGGTAGC CACCTGGGTG GGAGGCTTTG TCCACTCTAT TGTCCAGCTG  
GCTCTGATGC TCCCACTGCC CTTCTGTGGC CCCAACATTT TGGATAACTT CTA CTACTGTGAT  
GTTCCCAAG TACTGAGACT TGCCTGCACT GACACCTCAC TGCTGGAGTT CCTCAAGATC  
TCCAACAGTG GGCTGCTGGA TGTCGTCTGG TTCTTCCTCC TCCTGATGTC CTACTTATTC  
ATCCTGGTGA TGCTGAGGTC ACATCCAGGG GAGGCAAGAA GGAAGGCAGC TTCCACCTGC  
ACCACCCACA TCATCGTGGT TTCCATGATC TTCGTTCCAA GCATTTACCT CTATGCCCGG  
CCCTTCACTC CATTCCCTAT GGACAAGCTT GTGTCCATCG GCCACACAGT CATGACCCCC  
ATGCTCAACC CCATGATCTA TACCCTGAGG AACCAGGACA TGCAGGCAGC AGTGAGAAGA  
TTAGGGAGAC ACCGGCTGGT TTGA

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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:	<ul style="list-style-type: none"><li>• Forward primer: 5'-TAATACGACTCACTATAGGG-3'</li><li>• Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'</li></ul>
Grade:	End-sequenced
Components:	The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

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## Target Details

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Gene:	OR4D2
Alternative Name:	OR4D2 ( <a href="#">OR4D2 Products</a> )
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: 124538

NCBI Accession: [NM\\_001004707](#)

## 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)