

Datasheet for ABIN4926090

## Human OR4E2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR4E2
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 OR4E2 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	942 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGACAGTC TAAACCAAAC AAGAGTGACT GAATTTGTCT TCTTGGGACT CACTGATAAC CGGGTGCTGG AAATGCTGTT TTTTCATGGCA TTCTCAGCCA TTTATATGCT AACGCTTTTCG GGGAACATTC TCATCATCAT TGCCACAGTC TTTACTCCAA GTCTCCATAC CCCCATGTAT TTCTTCCTGA GCAATCTGTC CTTTATTGAC ATCTGCCACT CATCTGTAC TGTGCCTAAG ATGTTGGAGG GTTTGCTTTT AGAAAGAAAG ACCATTCCT TTGACAACCTG CATCACACAG

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## Product Details

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CTCTTCTTCC TACATCTCTT TGCCTGTGCC GAGATCTTTC TGCTGATCAT TATGGCGTAT  
GATCGTTACG TGGCTATCTG CACTCCACTC CACTACCCCA ATGTGATGAA CATGAGAGTC  
TGTATACAGC TTGTCTTTGC TCTCTGGTTG GGGGGTACTG TTCACTCACT AGGGCAGACC  
TTCTTGACTA TTCGTCTACC TTA CTGTGGC CCCAACATTA TTGACAGCTA CTTCTGTGAT  
GTGCCTCTTG TTATCAAGCT GGCCTGCACA GATACATACC TCACAGGAAT ACTGATTGTG  
ACCAATAGTG GAACCATCTC CCTCTCCTGT TTCTTGGCCG TGGTCACCTC CTATATGGTC  
ATCCTGGTTT CTCTTCGAAA ACACTCAGCT GAAGGGCGCC GGAAAGCCCT GTCTACCTGC  
TCGGCCCACT TCATGGTGGT TGCCCTCTTC TTTGGGCCAT GTATCTTCAT CTATACTCGG  
CCAGACACCA GCTTCTCCAT TGACAAGGTG GTGTCTGTCT TCTACACAGT GGTCACCCCT  
TTGCTGAATC CCTTCATTTA CACCTTGAGG AATGAGGAGG TAAAAAGTGC CATGAAGCAG  
CTCAGGCAGA GACAAGTTTT TTTCACGAAA TCATATACAT AA

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: OR4E2

Alternative Name: OR4E2 ([OR4E2 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: 26686

NCBI Accession: [NM\\_001001912](#)

## 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)