

Datasheet for ABIN4926148

## Human OR2B3 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR2B3
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 OR2B3 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:	ATGAATTGGG AAAATGAGAG CTCCCCAAA GAGTTTATAC TACTTGGCTT CTCAGATAGG GCTTGGCTAC AAATGCCCT TTTTGTGGTC CTGTTAATAT CATAACAAT CACCATATTT GGCAATGTGT CCATCATGAT GGTGTGCATT CTGGATCCCA AACTTCATAC TCCCATGTAT TTCTTTCTCA CTAATCTCTC CATCTTAGAT CTCTGCTATA CCACAACACTAC AGTCCCTCAT ATGTTGGTAA ATATTGGTTG CAACAAAAG ACCATCAGCT ATGCTGGCTG TGTGGCCAC

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## Product Details

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CTCATCATCT TCCTGGCCCT AGGTGCTACA GAGTGTCTCC TTCTGGCTGT TATGTCCTTT  
GACAGATATG TGGCTGTTTG CAGACCCCTC CACTATGTAG TCATCATGAA TTATTGGTTC  
TGCCTAAGGA TGGCAGCCTT CTCATGGCTC ATTGGTTTCG GCAACTCAGT GCTGCAGTCT  
TCCTTGACTC TTAACATGCC ACGCTGTGGT CACCAGGAAG TGGACCACTT TTTCTGTGAG  
GTGCCTGCAC TTCTCAAGTT GTCATGTGCT GACACAAAGC CTATTGAGGC TGAGCTCTTC  
TTCTTTAGTG TACTAATTCT TCTAATTCCA GTGACATTGA TCCTCATCTC CTATGGCTTC  
ATAGCTCAAG CAGTATTTAA AATCAGGTCA GCAGAAGGAC GGCAAAAAGC ATTTGGGACA  
TGTGGGTCCC ACATGATTGT GGTGTCCCTC TTTTATGGAA CAGCCATTTA TATGTATCTT  
CAACCACCTT CATCCACCTC TAAGGACTGG GGAAAGATGG TTTCCCTCTT CTATGGAATC  
ATCACATCCA TGTTGAACTC CCTCATCTAC AGCCTTAGAA ATAAAGATAT GAAGGAGGCC  
TTCAAGAGGC TGATGCCAAG AATCTTTTTTC TGTAAGAAAT 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: OR2B3

Alternative Name: OR2B3 ([OR2B3 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: 442184

NCBI Accession: [NM\\_001005226](#)

## 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)