

Datasheet for ABIN4926189

## Human OR14A16 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR14A16
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 OR14A16 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	930 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGCAAATC TCACAATCGT GACTGAATTT ATCCTTATGG GGTTTTCTAC CAATAAAAAT ATGTGCATTT TGCATTCGAT TCTCTTCTTG TTGATTTATT TGTGTGCCCT GATGGGGAAT GTCCTCATTG TCATGATCAC AACTTTGGAC CATCATCTCC ACACCCCGT GTATTTCTTC TTGAAGAATC TATCTTTCTT GGATCTCTGC CTTATTTTCAG TCACGGCTCC CAAATCTATC

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## Product Details

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GCCAATTCTT TGATACACAA CAACTCCATT TCATTCCTTG GCTGTGTTTC CCAGGTCTTT  
TTGTTGCTTT CTTCAGCATC TGCAGAGCTG CTCCTCCTCA CGGTGATGTC CTTTGACCGC  
TATACTGCTA TATGTCACCC TCTGCACTAT GATGTCATCA TGGACAGGAG CACCTGTGTC  
CAAAGAGCCA CTGTGTCTTG GCTGTATGGG GGTCTGATTG CTGTGATGCA CACAGCTGGC  
ACCTTCTCCT TATCCTACTG TGGGTCCAAC ATGGTCCATC AGTTCTTCTG TGACATTCCC  
CAGTTATTAG CTATTTCTTG CTCAGAAAAT TTAATAAGAG AAATTGCACT CATCCTTATT  
AATGTAGTTT TGGATTCTG CTGTTTTATT GTCATCATCA TTACCTATGT CCACGTCTTC  
TCTACAGTCA AGAAGATCCC TTCCACAGAA GGCCAGTCAA AAGCCTACTC TATTTGCCTT  
CCACACTTGC TGGTTGTGTT ATTTCTTTCC ACTGGATTCA TTGCTTATCT GAAGCCAGCT  
TCAGAGTCTC CTTCTATTTT GGATGCTGTA ATTTCTGTGT TCTACACTAT GCTGCCCCCA  
ACCTTTAATC CCATTATATA CAGTTTGAGA AACAAGGCCA TAAAGGTGGC TCTGGGGATG  
TTGATAAAGG GAAAGCTCAC CAAAAAGTAA

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: OR14A16

Alternative Name: OR14A16 ([OR14A16 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: 284532

NCBI Accession: [NM\\_001001966](#)

## 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)