

Datasheet for ABIN4926101

Human OR4C16 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR4C16
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 OR4C16 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	933 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	<p>ATGCAACTGA ATAATAATGT GACTGAGTTC ATTCTGCTTG GATTGACACA GGATCCTTTT</p> <p>TGGAAGAAAA TAGTGTGGT TATTTTTTGG CGTCTCTACT TGGGAACACT GTTGGGTAAT</p> <p>TTGCTAATCA TTATTAGTGT CAAGACCAGC CAGGCACTTA AGAACCCAAT GTTCTTCTTC</p> <p>CTTTTCTACT TATCCTTATC TGATACTTGC CTCTCTACTT CCATAACCCC TAGAATGATT</p> <p>GTGGATGCCC TTTTGAAGAA GACAACATATC TCCTTCAGCG AGTGCATGAT CCAAGTCTTT</p>

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Product Details

TCATCCCATG TCTTTGGCTG CCTGGAGATC TTCATCCTCA TCCTCACGGC TGTTGACCGC
TATGTGGACA TCTGTAAGCC CCTGCACTAC ATGACCATCA TAAGCCAGTG GGTCTGTGGT
GTTTTGATGG CTGTGGCCTG GGTGGGATCC TGTGTGCATT CTTTAGTTCA GATTTTTCTT
GCCCTGAGTT TGCCATTCTG TGGCCCCAAT GTGATCAATC ACTGTTTCTG TGACTIONGAG
CCCTTGTTGA AACAAAGCCTG TTCAGAAACC TATGTGGTTA ACCTACTCCT GGTTTCCAAT
AGTGGGGCCA TTTGTGCAGT GAGTTATGTC ATGCTAATAT TCTCCTATGT CATCTTCTTG
CATTCTCTGA GAAACCACAG TGCTGAAGTG ATAAAGAAAG CACTTTCCAC ATGTGTCTCC
CACATCATTG TGGTCATCTT GTTCTTTGGA CCTTGCATAT TTATGTACAC ATGCCTTGCA
ACCGTATTCC CCATGGATAA GATGATAGCT GTATTTTATA CAGTTGGAAC ATCTTTTCTC
AACCCCTGTGA TTTACACGCT GAAGAATACA GAAGTAAAA GTGCCATGAG GAAGCTTTGG
AGCAAGAAAT TGATCACAGA TGACAAAAGA TAA

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

Gene: OR4C16

Alternative Name: OR4C16 ([OR4C16 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. This olfactory receptor gene is a segregating pseudogene, where some individuals have an allele that encodes a functional olfactory

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Target Details

receptor, while other individuals have an allele encoding a protein that is predicted to be non-functional. [provided by RefSeq, Jun 2015].

Gene ID: 219428

NCBI Accession: [NM_001004701](#)

Application Details

Restrictions: For Research Use only

Handling

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

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)