

Datasheet for ABIN4926069

Human OR4X1 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR4X1
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 OR4X1 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	918 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGTTGCTA CAAACAATGT GACTGAAATA ATTTTCGTGG GATTTTCCCA GAATTGGAGT GAGCAGAGGG TCATTTCTGT GATGTTTCTC CTCATGTACA CAGCTGTTGT GCTGGGCAAT GGCCTCATTG TGGTGACCAT CCTGGCCAGC AAAGTGCTCA CCTCCCCCAT GTATTTCTTT CTCAGCTACT TATCCTTTGT GGAGATCTGC TACTGTTCTG TCATGGCCCC CAAGCTTATC TTTGACTCCT TTATCAAGAG GAAAGTCATT TCTCTCAAGG GCTGCCTCAC ACAGATGTTT

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Product Details

TCCCTCCATT TCTTTGGTGG CACTGAGGCC TTTCTCCTGA TGGTGATGGC CTATGACCGC
TATGTGGCCA TCTGCAAGCC CTTGCACTAC ATGGCCATCA TGAACCAGCG AATGTGTGGT
CTCCTCGTGA GGATAGCATG GGGCGGGGGC CTGCTGCATT CTGTTGGGCA AACCTTCCTG
ATTTTCCAGC TCCCGTTCTG TGGCCCCAAC ATCATGGACC ACTACTTCTG TGATGTCCAC
CCAGTGCTGG AGCTGGCCTG CGCAGACACC TTCTTCATTA GCCTGCTGAT CATCACCAAT
GGCGGCTCCA TCTCCGTAGT CAGTTTCTTC GTGCTGATGG CTTCTACCT GATCATCCTG
CACTTCCTGA GAAGCCACAA CTTGGAGGGG CAGCACAAGG CCCTCTCCAC CTGTGCCTCT
CATGTACAG TTGTGCACCT GTTCTTCATA CCTTGCTCCT TGGTCTATAT TAGGCCCTGT
GTCACCCTCC CTGCAGACAA GATAGTTGCT GTATTTTATA CAGTGGTCAC ACCTCTCTTA
AACCTGTGA TTTACTCCTT CAGGAATGCT GAAGTAAAA ATGCCATGAG GAGATTTATT
GGGGGAAAAG TAATTTGA

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: OR4X1

Alternative Name: OR4X1 ([OR4X1 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, Jul 2015].

Gene ID: 390113

NCBI Accession: [NM_001004726](#)

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)