

Datasheet for ABIN4926072

Human OR4Q3 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR4Q3
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 OR4Q3 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:	ATGAAAAAAG AACAAAGATTC TAATGTGACA GAATTTGTTC TTCTGGGCCT ATCATCTTCT TGGGAGCTGC AGCTATTTCT CTTCTTACTA TTTTTGTTTT TTTACATTGC TATTGTCCTG GGAAACCTCT TGATAGTGGT AACAGTGCAA GCCCATGCTC ACCTGCTCCA ATCTCCTATG TATTATTTTT TAGGTCATCT CTCTTTCATT GACCTATGCC TGAGCTGTGT TACTGTGCCA AAGATGTTAG GGGATTTCTC ACAGCAGGGC AAGAGCATCT CTTTTTCAGG ATGCCTGGCC

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Product Details

CAGATCTACT TCCTCCACTT TCTAGGAGCC AGTGAGATGT TTTTGCTGAC AGTCATGGCC
TATGACAGGT ATGTTGCCAT CTGTAACCCT TTGCGCTACC TTACAGTCAT GAACCCCCAG
CTATGCCTTT GGTTGGTTCT TGCCTGCTGG TGTGGGGGTT TTATCCACTC TATCATGCAG
GTCATACTAG TCATCCAGCT GCCTTTCTGT GGGCCCAATG AACTGGACAA CTTCTACTGT
GATGTCCCAC AAGTCATCAA GCTGGCCTGC ATGGACACCT ATGTGGTAGA GGTGCTGGTG
ATAGCCAACA GTGGTCTGCT GTCTCTTGTC TGCTTCTTGG TCTTACTATT CTCTTATGCT
ATCATCCTGA TCACCCTGAG AACACACTTC TGCCAGGGCC AGAACAAAGGT CTTCTCTACC
TGTGCTTCTC ACCTGACAGT GGTCAGCCTG ATCTTCGTGC CATGCGTATT CATCTATTTG
AGGCCTTTCT GCAGCTTCTC TGTGGATAAG ATATTCTCCT TGTTTTACAC AGTGATTACA
CCTATGTTGA ACCCCCTCAT CTACACACTC AGAAATACTG ATATGAAGAC AGCTATGAAG
AAGCTGAGGA TAAACCATG TGGCATTCCA TTGCCTTGTT 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

Gene: OR4Q3

Alternative Name: OR4Q3 ([OR4Q3 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

Gene ID: 441669

NCBI Accession: [NM_172194](#)

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)