

Datasheet for ABIN4936963

Human OR4F21 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR4F21
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 OR4F21 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	939 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGATGGAG AGAATCACTC AGTGGTATCT GAGTTTTTGT TTCTGGGACT CACTCATTCA TGGGAGATCC AGCTCCTCCT CCTAGTGTTT TCCTCTGTGC TCTATGTGGC AAGCATTACT GGAAACATCT TCATTGTGTT TTCTGTGACC ACTGACCCTC ACTTACACTC CCCCATGTAC TTTCTACTGG CCAGTCTCTC CTTCATTGAC TTAGGAGCCT GCTCTGTAC TTCTCCCAAG ATGATTTATG ACCTGTTTCAAG AAAGCGCAAA GTCATCTCCT TTGGAGGCTG CATCGCTCAA

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Product Details

ATCTTCTTCA TCCACGTCAT TGGTGGTGTG GAGATGGTGC TGCTCATAGC CATGGCCTTT
GACAGATATG TGGCCCTATG TAAGCCCCTC CACTATCTGA CCATTATGAG CCCAAGAATG
TGCCTTTCAT TTCTGGCTGT TGCCTGGACC CTTGGTGTCA GTCACTCCCT GTTCCAACCTG
GCATTTCTTG TTAATTTAGC CTTCTGTGGC CCTAATGTGT TGGACAGCTT CACTGTGAC
CTTCCTCGGC TTCTCAGACT AGCCTGTACC GACACCTACA GATTGCAGTT CATGGTCACT
GTTAACAGTG GGTTTATCTG TGTGGGTACT TTCTTCATAC TTCTAATCTC CTACGTCTTC
ATCCTGTTTA CTGTTTGGAA ACATTCCTCA GGTGGTTCAT CCAAGGCCCT TTCCACTCTT
TCAGCTCACA GCACAGTGGT CCTTTTGTTT TTTGGTCCAC CCATGTTTGT GTATACACGG
CCACACCCTA ATTCACAGAT GGACAAGTTT CTGGCTATTT TTGATGCAGT TCTCACTCCT
TTTCTGAATC CAGTTGTCTA TACATTCAGG AATAAGGAGA TGAAGGCAGC AATAAAGAGA
GTATGCAAAC AGCTAGTGAT TTACAAGAAG ATCTCATAA

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: OR4F21

Alternative Name: OR4F21 ([OR4F21 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: 441308

NCBI Accession: [NM_001005504](#)

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)