

Datasheet for ABIN4918752

Human OR4K14 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR4K14
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 OR4K14 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>ATGGACCCAC AGAACTATTC CTTGGTGTCA GAATTTGTGT TGCATGGACT CTGCACTTCA</p> <p>CGACATCTTC AAAATTTTTT CTTTATATTT TTCTTTGGGG TCTATGTGGC CATTATGCTG</p> <p>GGTAACCTTC TCATTTTGGT CACTGTAATT TCTGATCCCT GCCTGCACTC CTCCCCTATG</p> <p>TACTTCCTGC TGGGGAACCT AGCTTTCCTG GACATGTGGC TGGCCTCATT TGCCACTCCC</p> <p>AAGATGATCA GGGATTTCCCT TAGTGATCAA AAACATCATCT CCTTTGGAGG ATGTATGGCT</p>

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Product Details

CAAATCTTCT TCTTGCACCTT TACTGGTGGG GCTGAGATGG TGCTCCTGGT TTCCATGGCC
TATGACAGAT ATGTGGCCAT ATGCAAACCC TTGCATTACA TGACTTTGAT GAGTTGGCAG
ACTTGCATCA GGCTGGTGCT GGCTTCATGG GTCGTTGGAT TTGTGCACTC CATCAGTCAA
GTGGCTTTCA CTGTAAATTT GCCTTACTGT GGCCCCAATG AGGTAGACAG CTTCTTCTGT
GACCTCCCTC TGGTGATCAA ACTTGCCTGC ATGGACACCT ATGTCTTGGG TATAATTATG
ATCTCAGACA GTGGGTTGCT TTCCTTGAGC TGTTTTCTGC TCCTCCTGAT CTCCTACACC
GTGATCCTCC TCGCTATCAG ACAGCGTGCT GCCGGTAGCA CATCCAAAGC ACTCTCCACT
TGCTCTGCAC ATATCATGGT AGTGACGCTG TTCTTTGGCC CTTGCATTTT TGTTTATGTG
CGGCCTTTCA GTAGGTTCTC TGTGGACAAG CTGCTGTCTG TGTTTTATAC CATTTTTACT
CCACTCCTGA ACCCCATTAT CTACACATTG AGAAATGAGG AGATGAAAGC AGCTATGAAG
AAACTGCAAA ACCGACGGGT GACTTTTCAA TGA

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:	<ul style="list-style-type: none">• 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:	OR4K14
Alternative Name:	OR4K14 (OR4K14 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: 122740

NCBI Accession: [NM_001004712](#)

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)