

Datasheet for ABIN4936961

Human OR51B4 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR51B4
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 OR51B4 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:	ATGTGGTATA ACAACAGTGC TGGCCCCCTTC TTGCTGACTG GCTTCTTGGG CTCAGAGGCA GTTCACTACC GGATCTCTAT GTCCTTCTTT GTCATCTACT TCTCCGTCCT TTTTGAAAT GGCACTCTTC TTGTCCTCAT TTGGAATGAT CACAGCCTCC ATGAGCCCAT GTACTACTTC CTGGCTATGC TGGCAGACAC GGACCTTGGG ATGACATTCA CTACAATGCC CACAGTCCTG GGTGTCTCCTGC TGCTAGACCA GAGGGAGATT GCCCATGCTG CCTGTTTCAC CCAATCCTTC

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Product Details

ATTCATTCAC TGGCCATTGT AGAATCAGGT ATCTTGCTTG TTTTGGCCTA TGACTGTTTC
ATTGCCATCC GCACACCACT GAGGTACAAC TGCATTCTTA CCAATTCCCG AGTGATGAAC
ATAGGACTGG GGGTACTGAT GAGAGGTTTT ATGTCCATTT TGCCATAAT TCTTCACTC
TACTGCTACC CATATTGTGG TTCCCGTGCC CTCTTGACA CATTTCCTT CCATCAAGAT
GTCATAAAAC TCGCCTGTGC TGATATCACG TTTAATCACA TATATCCAAT TATTCAGACT
TCTTTGACTG TCTTTTTAGA TGCTCTAATC ATCATCTTTT CTTATATACT AATCCTCAAG
ACAGTGATGG GCATTGCGTC TGGACAAGAG GAAGCTAAAT CTCTCAACAC TTGTGTCTCC
CATATTAGCT GTGTCCTAGT ATTTACATC ACTGTGATGG GACTGTCATT CATTACAGG
TTTGGGAAAC ATGCACCTCA TGTGGTCCCC ATTACCATGA GCTATGTCCA TTTTCTCTTT
CCTCCATTCG TGAATCCTAT CATTATAGC ATCAAGACCA AGCAGATTCA AAGAAGCATT
ATTCGCCTAT TTTCTGGGCA GAGTAGGGCT 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:

- 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: OR51B4

Alternative Name: OR51B4 ([OR51B4 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: 79339

NCBI Accession: [NM_033179](#)

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)