

Datasheet for ABIN4926140

Human OR2G3 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR2G3
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 OR2G3 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	930 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGGATTGG GCAATGAGAG TTCCTAATG GATTTCATCC TTCTAGGCTT CTCAGACCAC CCTCGTCTGG AGGCTGTTCT CTTTGTATTT GTCCTTTTCT TCTACCTCCT GACCCTTGTG GGAAACTTCA CCATAATCAT CATCTCATAT CTGGATCCCC CTCTTCATAC CCCAATGTAC TTTTTTCTCA GCAACCTCTC TTTACTGGAC ATCTGCTTCA CTA TAGCCT TGCTCCTCAG ACCTTAGTTA ACTTGCAAAG ACCAAAGAAG ACGATCACTT ACGGTGGTTG TGTGGCGCAA

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Product Details

CTCTATATTT CTCTGGCACT GGGCTCCACT GAATGTATCC TCTTGGCTGA CATGGCCTTG
GATCGGTACA TTGCTGTCTG CAAACCCCTC CACTATGTAG TCATCATGAA CCCACGGCTT
TGCCAACAGC TGGCATCTAT CTCCTGGCTC AGTGGTTTGG CTAGTTCCT AATCCATGCA
ACTTTTACCT TGCAATTGCC TCTCTGTGGC AACCATAGGC TGGACCATTT TATTTGCGAA
GTACCAGCTC TTCTCAAGTT GGCTTGTGTG GACACCACTG TCAATGAATT GGTGCTTTTT
GTTGTTAGTG TTCTGTTTGT TGTCATTCCA CCAGCACTCA TCTCCATCTC CTATGGCTTC
ATAACTCAAG CTGTGCTGAG GATCAAATCA GTAGAGGCAA GGCACAAAGC CTTCAGCACC
TGCTCCTCCC ACCTTACAGT GGTGATTATA TTCTATGGCA CCATAATCTA CGTGTACCTG
CAACCTAGTG ACAGCTATGC CCAGGACCAA GGAAGTTTA TCTCCCTCTT CTACACCATG
GTGACCCCCA CTTTAAATCC TATCATCTAT ACTTTAAGGA ACAAGGATAT GAAAGAGGCT
CTGAGGAAAC TTCTCTCGGG AAAATTGTGA

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: OR2G3

Alternative Name: OR2G3 ([OR2G3 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: 81469

NCBI Accession: [NM_001001914](#)

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)