

Datasheet for ABIN4926141

Human OR2G2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR2G2
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 OR2G2 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	954 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGGGATGG TGAGACATAC CAATGAGAGC AACCTAGCAG GTTTCATCCT TTTAGGGTTT TCTGATTATC CTCAGTTACA GAAGGTTCTA TTTGTGCTCA TATTGATTCT GTATTTACTA ACTATTTTGG GGAATACCAC CATCATTCTG GTTTCTCGTC TGGAACCCAA GCTTCATATG CCGATGTATT TCTTCCTTTC TCATCTCTCC TTCCTGTACC GCTGCTTCAC CAGCAGTGTT ATTCCCCAGC TCCTGGTAAA CCTGTGGGAA CCCATGAAAA CTATCGCCTA TGGTGGCTGT

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Product Details

TTGGTTCACC TTTACAACCT CCATGCCCTG GGATCCACTG AGTGCGTCCT CCCGGCTGTG
ATGTCCTGTG ACCGCTATGT GGCTGTCTGC CGTCCTCTCC ATTACACTGT CTTAATGCAT
ATCCATCTCT GCATGGCCTT GGCATCTATG GCATGGCTCA GTGGAATAGC CACCACCCTG
GTACAGTCCA CCCTCACCTT GCAGCTGCCC TTCTGTGGG ATCGCCAAGT GGATCATTTT
ATCTGCGAGG TCCCTGTGCT CATCAAGCTG GCTTGTGTGG GCACCACGTT TAACGAGGCT
GAGCTTTTTG TGGCTAGTAT CCTTTTCCTT ATAGTGCCTG TCTCATTAT CCTGGTCTCC
TCTGGCTACA TTGCCACGC AGTGTTGAGG ATTAAGTCAG CTACCAGGAG ACAGAAAGCA
TTCGGGACCT GCTTCTCCCA CCTGACAGTG GTCACCATCT TTTATGGAAC CATCATCTTC
ATGTATCTGC AGCCAGCCAA GAGTAGATCC AGGGACCAGG GCAAGTTTGT TTCTCTCTTC
TACTACTGTG TAACCCGCAT GCTTAACCCT CTTATTTATA CCTTGAGGAT CAAGGAGGTG
AAAGGGGCAT TAAAGAAAGT TCTAGCAAAG GCTCTGGGAG TAAATATTTT ATGA

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: OR2G2

Alternative Name: OR2G2 ([OR2G2 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: 81470

NCBI Accession: [NM_001001915](#)

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)