

Datasheet for ABIN4926129

Human OR2T1 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR2T1
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 OR2T1 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1110 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGTGGCAAG AATACTATTT TTAAATGTT TTCTTCCCAC TTTTAAAAGT TTGCTGCCTA ACAATTAATT CACATGTTGT TATTTTACTG CCCTGGAAT GCTATCATCT TATTTGGAAG ATATTACCTT ATATCGGCAC AACTGTAGGA TCAATGGAAG AGTACAACAC ATCCTCTACA GACTTCACTT TCATGGGGCT GTTCAACAGA AAGGAAACCT CAGGTCTTAT TTTTGCCATC ATCTCTATCA TCTTCTTAC CGCACTGATG GCCAATGGGG TTATGATCTT CCTGATCCAA

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Product Details

ACAGATTTGC GCCTTCATAC ACCCATGTAC TTCCTCCTCA GCCACCTTTC CTTAATTGAC
ATGATGTATA TTTCCACTAT TGTGCCTAAG ATGCTGGTTA ATTACCTGCT GGATCAAAGG
ACCATTTTCTT TTGTGGGGTG CACAGCTCAA CACTTCCTCT ACCTTACCCT TGTGGGAGCT
GAATTCTTCC TGCTGGGCCT CATGGCCTAT GACCGCTATG TGGCCATTTG CAACCCTCTG
AGATACCCTG TCCTCATGAG CCGCCGGGTC TGTTGGATGA TTATAGCAGG TTCCTGGTTT
GGGGGCTCTT TGGATGGCTT CCTCCTAACC CCCATCACCA TGAGCTTTCC CTTCTGCAAT
TCCCGGGAGA TTAACCACTT CTTCTGTGAG GCACCAGCAG TCCTGAAGTT GGCATGTGCA
GACACAGCCC TCTACGAGAC AGTGATGTAT GTGTGCTGTG TTTTGATGCT GCTGATTCTT
TTCTCTGTAG TCCTTGCTTC CTATGCCCGA ATCCTGACTA CAGTTCAGTG CATGAGCTCA
GTGGAGGGCA GGAAGAAGGC ATTTGCCACT TGCTCATCCC ACATGACTGT GGTGTCCTTG
TTCTACGGGG CTGCCATGTA CACCTACATG CTGCCACATT CTTACCACAA GCCAGCCCAG
GACAAAGTCC TCTCTGTGTT TTACACCATT CTCACACCCA TGCTGAACCC CCTCATCTAC
AGCCTTAGAA ACAAGGATGT GACTGGAGCT CTGAAGAGGG CCTTGGGGAG GTTCAAGGGT
CCTCAAAGGG TGTCAGGAGG TGTCTTTTGA

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: OR2T1

Alternative Name: OR2T1 ([OR2T1 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

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Target Details

genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. [provided by RefSeq, Jul 2008].

Gene ID: 26696

NCBI Accession: [NM_030904](#)

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)