

Datasheet for ABIN4926011

Human OR5R1 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR5R1
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 OR5R1 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	975 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGCTGAAG TTAATATCAT TTATGTCACT GTATTCATTC TGAAAGGAAT TACCAACCGG CCAGAGCTTC AGGCCCCGTG CTTTGGGGTG TTTTGTAGTTA TCTATCTGGT CACAGTGCTG GGCAATCTTG GGTTGATTAC TTTAATCAAG ATTGATACTC GACTCCACAC ACCTATGTAC TATTTCTCA GCCACCTGGC CTTTGTGAC CTTTGTACT CCTCTGCTAT TACACCGAAG ATGATGGTGA ATTTTGTGT GGAACGCAAC ACCATTCCTT TCCATGCTTG TGCAACCCAA

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Product Details

CTGGGTTGTT TTCTCACCTT CATGATCACT GAGTGTTTCC TTCTAGCCTC CATGGCCTAC
GATTGCTATG TCGCCATCTG TAGTCCCCTG CATTATTCAA CACTGATGTC AAGAAGAGTC
TGCATTCAAC TGGTGGCAGT TCCATATATA TACAGCTTCC TGGTTGCCCT CTCCACACC
GTTATCACTT TCCGTCTGAC TTAGTGTGGC CCAAACCTAA TTAACCATTT CTATTGTGAT
GACCTCCCCT TCTTAGCTCT GTCCTGCTCA GACACACACA TGAAGGAAAT TCTGATATTT
GCCTTTGCTG GCTTTGATAT GATCTCTTCC TCTTCCATTG TCCTCACCTC CTACATCTTT
ATTATTGCCG CTATCCTAAG GATCCGCTCT ACTCAGGGGC AACACAAAGC CATTTCACC
TGTGGCTCCC ATATGGTGAC TGCACTATT TTCTATGGCA CACTGATCTT TATGTACCTA
CAGCCCAAAT CAAATCACTC CTTGGACACA GACAAGATGG CTTCTGTATT TTACACAGTG
GTGATCCCCA TGTTAAACCC CCTAATCTAT AGTCTAAGGA ACAAAGAAGT GAAAGATGCC
TCAAAGAAAG CCTTGGATAA AGGTTGTGAA AACTTACAGA TATTAACATT TTTAAAATA
AGAAAACCTT ATTAA

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: OR5R1

Alternative Name: OR5R1 ([OR5R1 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. This olfactory receptor gene is a segregating

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Target Details

pseudogene, where some individuals have an allele that encodes a functional olfactory receptor, while other individuals have an allele encoding a protein that is predicted to be non-functional. [provided by RefSeq, Jun 2015].

Gene ID: 219479

NCBI Accession: [NM_001004744](#)

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)