

Datasheet for ABIN4926164

Human OR1S1 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR1S1
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 OR1S1 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	978 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGAAGACTT TTAGTTCCTT TCTTCAGATC GGCAGAAATA TGCATCAAGG AAACCAAACC ACCATCACTG AATTCATTCT CCTGGGATTT TTCAAGCAGG ATGAGCATCA AAACCTCCTC TTTGTGCTTT TCTTGGGTAT GTACCTGGTC ACTGTGATTG GGAACGGGCT CATCATTGTG GCTATCAGCT TGGATACGTA CCTTCATACC CCCATGTATC TCTTCCTTGC CAATCTATCC TTTGCTGATA TTTCTCCAT TTCCAACCTCA GTCCCCAAAA TGCTGGTGAA TATTCAAACC

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Product Details

AAGAGTCAAT CCATCTCTTA TGAGAGCTGC ATCACACAGA TGTACTTTTC TATTGTGTTT
GTCGTCATTG ACAATTTGCT CTTGGGGACC ATGGCCTATG ACCACTTTGT GGCGATCTGC
CACCCCTCTGA ATTATACAAT TCTCATGCGG CCCAGGTTCC GCATTTTGCT CACAGTCATC
TCATGGTTCC TCAGTAATAT TATTGCTCTG ACACACACCC TTCTGCTCAT TCAATTGCTC
TTCTGTAACC ACAACACTCT CCCACACTTC TTCTGTGACT TGGCCCCTCT GCTCAAAGTG
TCCTGTTTCC ATACATTGAT CAATGAGCTT GTGTTGTTTA TTGTGGGTTT ATCAGTTATC
ATCTTCCCCT TTACTCTCAG CTTCTTTTCC TATGTCTGCA TCATCAGAGC TGTCTGAGA
GTATCTTCCA CACAGGGAAA GTGGAAAGCC TTCTCCACTT GTGGCTCTCA CCTGACAGTT
GTATTACTGT TCTACGGAAC CATTGTAGGC GTGTACTTTT TCCCCTCTC CACTCACCCCT
GAGGACACTG ATAAGATTGG TGCTGTCCTA TTCACTGTGG TGACACCCAT GATAAACCCC
TTCATCTACA GCTTGAGGAA TAAGGATATG AAAGGTGCC TGAGAAAGCT CATCAATAGA
AAAATTTCTT CCCTTTGA

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: OR1S1

Alternative Name: OR1S1 ([OR1S1 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: 219959

NCBI Accession: [NM_001004458](#)

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)