

Datasheet for ABIN4926163

Human OR1S2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

| | |
|--------------|-----------------------------|
| Quantity: | 10 µg |
| Gene: | OR1S2 |
| 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 OR1S2 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 TGTGTTCCCTT TCTTCAGATC AGCAGAAATA TGCATCAAGA AAACCAAACC ACCATCACTG AATTCATTCT CCTGGGACTC TCCAACCAGG CTGAACATCA AAACCTCCTC TTTGTGCTTT TCCTGAGTAT GTATGTGGTC ACTGTGGTTG GGAACGGGCT CATCATTGTG GCTATCAGCT TGGATATATA CCTTCACACC CCCATGTATC TCTTCCTTGC CTACCTATCC TTTGCTGATA TTTCTCCAT TTCCAACCTCA GTCCCCAAAA TGCTGGTGAA TATTCAAACC |

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Product Details

AACAGCCAAT CCATCTCTTA TGAGAGCTGC ATCACACAGA TGTACTTTTC TATTGTGTTT
GTCGTCACTG ACAATTTGCT TTTGGGGACC ATGGCCTTCG ACCACTTTGT GGCGATCTGC
CACCCCTCTGA ACTATACAAC TTTCATGCGG GCCAGGTTTCG GCACTTTGCT CACAGTCATC
TCGTGGTTCC TCAGTAATAT TATTGCTCTT ACACACACCC TTCTGCTCAT TCAATTGCTC
TTCTGTGACC ACAACACTCT CCCACACTTC TTCTGTGACT TGGCCCCTCT GCTCAAACG
TCCTGTTTCCAG ATACAATGAT CAATGAGCTT GTGTTGTTTA TTGTGGGTTT ATCAGTTATC
ATCTTCCCCT TTGTACTCAT CTTCTTCTCC TATGTCTGCA TCATCAGAGC TGTCTGGGA
GTATCATCCA CACAGGGAAA GTGGAAAGCC TTCTCCACTT GTGGCTCTCA CCTGACAATT
GCATTACTGT TCTACGGAAC CACTGTAGGC GTGTACTTTT TCCCCTCCTC CACTCACCCCT
GAGGACACTG ATAAGATTGG TGCTGTCCTA TTCACTGTGG TGACACCCAT GATGAACCCC
TTCATCTACA GCTTGAGGAA TAAGGATATG AAAGGTGCCC 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: OR1S2

Alternative Name: OR1S2 ([OR1S2 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: 219958

NCBI Accession: [NM_001004459](#)

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)