

Datasheet for ABIN4926215

Human OR10R2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR10R2
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 OR10R2 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1008 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	<p>ATGCCCAAAA TTCTTATATT CACATACCTG AATATGTTTT ACTTCTTTCC CCCTTTGCAG ATCTTGGCAG AAAACCTCAC CATGGTCACC GAATTCCTGT TGCTGGGTTT TTCCAGCCTT GGTGAAATTC AGCTGGCCCT CTTTGTAGTT TTTCTTTTTT TGTATCTAGT CATTCTTAGT GGCAATGTCA CCATTATCAG TGTCATCCAC CTGGATAAAA GCCTCCACAC ACCAATGTAC TTCTTCCTTG GCATTCTCTC AACATCTGAG ACCTTCTACA CCTTTGTCAT TCTACCCAAG</p>

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Product Details

ATGCTCATCA ATCTACTTTC TGTGGCCAGG ACAATCTCCT TCAACTGTTG TGCTCTCAA
ATGTTCTTCT TCCTTGGTTT TGCCATTACC AACTGCCTGC TATTGGGTGT GATGGGTTAT
GATCGCTATG CTGCCATTTG TCACCCTCTG CATTACCCCA CTCTTATGAG CTGGCAGGTG
TGTGGAAAAC TGGCAGCTGC CTGTGCAATT GGTGGCTTCT TGGCCTCTCT TACAGTAGTA
AATTTAGTTT TCAGCCTCCC TTTTGTAGC GCCAACAAAG TCAATCATTA CTTCTGTGAC
ATCTCAGCAG TCATTCTTCT GGCTTGTACC AACACAGATG TTAACGAATT TGTGATATTC
ATTTGTGGAG TTCTTGACT TGTGGTTCCC TTTCTGTTTA TCTGTGTTTC TTATCTCTGC
ATTCTGAGGA CTATCCTGAA GATTCCCTCA GCTGAGGGCA GACGGAAAGC GTTTTCCACC
TGCGCCTCTC ACCTCAGTGT TGTTATTGTT CATTATGGCT GTGCTTCCTT CATCTACCTG
AGGCCTACAG CAAACTATGT GTCCAACAAA GACAGGCTGG TGACGGTGAC ATACACGATT
GTCACTCCAT TACTAAACCC CATGGTTTAT AGCCTCAGAA ACAAGGATGT CCAACTTGCT
ATCAGAAAAG TGTTGGGCAA GAAAGTTTCT CTAAACTAT ATAATTGA

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: OR10R2

Alternative Name: OR10R2 ([OR10R2 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: 343406

NCBI Accession: [NM_001004472](#)

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)