

Datasheet for ABIN4918755

## Human OR10AG1 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR10AG1
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 OR10AG1 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	906 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGAATTTG TTCTTTTGGG GTTTTCTGAT ATTCCAATC TCCACTGGAT GCTTTTTAGT ATATTTTAC TTATGTATTT GATGATCCTG ATGTGCAATG GCATCATAAT ACTACTAATA AAAATTCACC CCGCTCTCCA GACTCCCATG TATTTTTTTC TTAGCAATTT TTCCCTTTTG GAAATCTGTT ATGTAACAAT CATTATCCCA AGAATGCTCA TGGACATTTG GACTCAGAAA

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## Product Details

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GGAAATATTT CTTTGTTC TGTGCTACA CAAATGTGTT TTTTCTTAT GCTTGGAGGC  
ACGGAGTGTC TCCTTCTGAC AGTGATGGCC TATGACCGCT ACGTGGCTAT TTGTAAGCCT  
TTGCAGTATC CTCTAGTGAT GAACCACAAA GTCTGCATTC AGCTGATAAT AGCTTCCTGG  
ACCATCACAA TTCCTGTAGT AATTGGGGAA ACATGCCAAA TTTTCCTTTT GCCCTTTTGC  
GGAACATA CAATTAATCA TTTCTTTTGT GACATCCCGC CAATACTCAA GCTTGCTTGT  
GGAAACATAT TTGTGAATGA GATAACAGTC CATGTAGTAG CGGTGGTGTT TATCACGGTG  
CCATTTCTGT TGATTGTTGT CTCTTATGGC AAAATTATCT CCAACATTTT GAAATTGTCA  
TCAGCCAGAG GAAAGGCTAA AGCCTTCTCC ACCTGCTCAT CTCACCTAAT AGTTGTAATC  
TTATTCTTTG GAGCAGGTAC TATCACTTAT TTACAGCCCA AACCACATCA GTTTCAAAGG  
ATGGGGAAAC TGATTTCTCT TTTCTACACC ATTCTGATTC CAACTTTGAA TCCTATTATA  
TATACCCTGA GGAACAAAGA TATCATGGTG GCATTGAGAA AATTACTAGC TAAGTTATTA  
ACATGA

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

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Gene: OR10AG1

Alternative Name: OR10AG1 ([OR10AG1 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

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Gene ID: 282770

NCBI Accession: [NM\\_001005491](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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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

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)