

Datasheet for ABIN4925974

## Human OR7G2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR7G2
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 OR7G2 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1038 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGCCGATGC AGCTGCTGCT TACAGATTTT ATTATCTTTT CCATCAGATT CATCATCAAC AGCATGGAAG CGAGAAACCA AACAGCTATT TCAAATTCC TTCTCCTGGG ACTGATAGAG GATCCGGAAC TGCAGCCCGT CCTTTTCAGC CTGTTCTGT CCATGTACTT GGTCACCATC CTGGGGAACC TGCTCATCCT CTTGGCTGTC ATCTCTGACT CTCACCTCCA CACCCCCATG TACTTCTTCC TCTCCAATCT CTCCTTTTGG GACATTTGTT TAAGCACAAC CACGATCCCA

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## Product Details

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AAGATGCTGG TGAACATCCA AGCTCAGAAT CGGAGCATCA CGTACTCAGG CTGCCTCACC  
CAGATCTGCT TTGTCTTGTT TTTTGCTGGC TTGGAAAATT GTCTCCTTGC AGCAATGGCC  
TATGACCGCT ATGTGGCCAT TTGTCACCCC CTTAGATACA CAGTCATCAT GAACCCCCGC  
CTCTGTGGCC TGCTGATTCT TCTCTCTCTG TTGACTAGTG TTGTGAATGC CCTTCTTCTC  
AGCCTGATGG TGTTGAGGCT GTCCTTCTGC ACAGACCTGG AAATCCCGCT CTTCTTCTGT  
GAACTGGCTC AGGTCATCCA ACTCACCTGT TCAGACACCC TCATCAATAA CATCCTGATA  
TATTTTGCAG CTTGCATATT TGGTGGTGT CCTCTGTCTG GAATCATTTT GTCTTACACT  
CAGATCACCT CCTGTGTTTT GAGAATGCCA TCAGCAAGTG GAAAGCACAA AGCAGTTTCC  
ACCTGTGGGT CTCACCTCTC CATTGTTCTC TTGTTCTATG GGGCAGGTTT GGGGGTGTAC  
ATTAGTTCTG TGGTACTGA CTCACCTAGG AAGACTGCAG TGGCTTCAGT GATGTATTCT  
GTGTTCCCTC AAATGGTGAA CCCCTTTATC TATAGTCTGA GGAATAAGGA CATGAAAGGA  
ACCTTGAGGA AGTTCATAGG GAGGATACCT TCTCTTCTGT GGTGTGCCAT TTGCTTTGGA  
TTCAGGTTTC TAGAGTAA

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: OR7G2

Alternative Name: OR7G2 ([OR7G2 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

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## Target Details

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organism is independent of other organisms. [provided by RefSeq, Jul 2008].

Gene ID: 390882

NCBI Accession: [NM\\_001005193](#)

## 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)