

Datasheet for ABIN4936947

## Human OR7G1 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR7G1
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 OR7G1 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	936 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGGACCCA GAAACCAAAC AGCTGTTTCA GAATTTCTTC TCATGAAAGT GACAGAGGAC CCAGAACTGA AGTTAATCCC TTTTCAGCCTG TTCCTGTCCA TGTACCTGGT CACCATCCTG GGGAACCTGC TCATTCTCCT GGCTGTCATC TCTGACTCCC ACCTCCACAC CCCCATGTAC TTCCTTCTCT TTAATCTCTC CTTTACTGAC ATCTGTTTAA CCACAACCAC AGTCCCAAAG ATCCTAGTGA ACATCCAAGC TCAGAATCAG AGTATCACTT ACACAGGCTG CCTCACCCAG

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## Product Details

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ATCTGTCTTG TCTTGGTTTT TGCTGGCTTG GAAAGTTGCT TTCTTGCAGT CATGGCCTAC  
GACCGCTATG TGGCCATTTG CCACCCACTG AGGTACACAG TCCTCATGAA TGTCCATTTT  
TGGGGCTTGC TGATTCTTCT CTCCATGTTC ATGAGCACTA TGGATGCCCT GGTTCCAGAGT  
CTGATGGTAT TGCAGCTGTC CTTCTGCAA AACGTTGAAA TCCCTTTGTT CTTCTGTGAA  
GTCGTTCCAGG TCATCAAGCT CGCCTGTTCT GACACCCTCA TCAACAACAT CCTCATATAT  
TTTGCAAGTA GTGTATTTGG TGCAATTCCT CTCTCTGGAA TAATTTTCTC TTATTCTCAA  
ATAGTCACCT CTGTTCTGAG AATGCCATCA GCAAGAGGAA AGTATAAAGC GTTTTCCACC  
TGTGGCTGTC ACCTCTCTGT TTTTTCCTTG TTCTATGGGA CAGCTTTTGG GGTGTACATT  
AGTTCTGCTG TTGCTGAGTC TTCCCGAATT ACTGCTGTGG CTTCCAGTGAT GTACACTGTG  
GTCCCTCAAA TGATGAACCC CTTTCATCTAC AGCCTGAGAA ATAAGGAGAT GAAGAAAGCT  
TTGAGGAAAC TTATTGGTAG GCTGTTTCCT TTTTAG

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: OR7G1

Alternative Name: OR7G1 ([OR7G1 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: 125962

NCBI Accession: [NM\\_001005192](#)

## 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)