

Datasheet for ABIN4926127

## Human OR2T12 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR2T12
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 OR2T12 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	963 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGAGATGA GAAATACTAC CCCAGATTTT ATTCTCCTAG GACTCTTTAA CCACACCAGA GCCACCAAG TCCTCTTCAT GATGCTTCTG GCCACCGTTT TGACCTCCCT GTTTAGCAAT GCCCTCATGA TTCTCCTGAT TCACTGGGAC CACCGGCTCC ACAGGCCCAT GTACTTCCTC CTGAGCCAAC TTTCCCTCAT GGACATGATG CTGGTTTCCA CCACTGTGCC CAAAATGGCG GCTGACTACT TGACCGGAAA TAAGGCCATC TCCCGCGCTG GCTGTGGTGT GCAGATCTTC

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## Product Details

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TTCTCCCCA CACTGGGTGG TGGAGAGTGC TTCCTCTTAG CAGCCATGGC CTATGACCGC  
TATGCGGCTG TCTGCCACCC ACTCCGATAT CCCACTCTCA TGAGCTGGCA GCTGTGCCTG  
AGGATGACCA TGTCGTCTTG GCTCCTGGGT GCAGCTGACG GCCTCCTGCA GGCTGTTGCT  
ACCCTGAGCT TCCCATATTG CGGTGCACAC GAGATCGATC ACTTCTTCTG CGAGGCCCCC  
GTGTTGGTGC GTTTGGCTTG TGCTGACACT TCAGTCTTCG AAAACGCCAT GTACATCTGC  
TGTGTGTTAA TGCTCCTGGT CCCCTTTTCC CTCATCCTGT CCTCCTATGG TCTCATCCTC  
GCTGCTGTTT TGCTCATGCG CTCTACAGAA GCCCGCAAGA AGGCCTTTCG CACCTGCTCT  
TCACATGTGG CTGTGGTGGG ACTCTTTTAT GGAGCTGGCA TTTTACCTA TATGAGACCC  
AAATCCCACA GGTCCACTAA CCACGATAAG GTTGTGTCAG CCTTCTATAC TATGTTCCACC  
CCTTTACTAA ATCCCCTCAT CTACAGTGTG AGGAACAGTG AGGTCAAGGA AGCCCTGAAA  
CGGTGGCTGG GGACGTGTGT AACCTAAAA CACCAGCAAA ATGAGGCCCA CAGGTCAAGA  
TGA

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: OR2T12

Alternative Name: OR2T12 ([OR2T12 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: 127064

NCBI Accession: [NM\\_001004692](#)

## 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)