

Datasheet for ABIN4918747

## Human OR51F1 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR51F1
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 OR51F1 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	939 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGAAATCC TAAGCAACTC AACATCTAAA TTTCCAACCT TCTTGTTGAC CGGCATTTCCT GGCCTAGAGT CTGCCCATGT CTGGATCTCC ATTCCTTTCT GTTGTITTTTA TGCCATTGCC CTCTCTGGGA ACAGCGTGAT CCTGTTTGTG ATCATTACCC AGCAGAGTCT CCATGAACCC ATGTATTATT TCCTCTTCAG GCTATCAGCC ACTGATCTGG GCTTGACTGT TTCTTCATTG TCAACAACAT TAGGTATCCT CTGGTTTGTAG GCACGTGAAA TCAGTCTATA TAGCTGCATT

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## Product Details

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GTCCAGATGT TTTTCTTCA TGGATTCCT TTTATGGAAT CTGGAGTGCT GGTGGCTACA  
GCCTTTGACC GTTATGTGGC CATCTGTGAC CCTCTGAGGT AACTACCAT TCTCACTAAT  
TCCAGAATCA TTCAAATGGG TCTTCTGATG ATTACACGTG CTATAGTACT AATATTGCCA  
CTACTTTTGC TCCTTAAGCC TCTCTATTTG TGTAGAATGA ATGCCCTTTC TCACTCCTAT  
TGTTACCATC CAGATGTGAT TCAATTAGCA TGTTACAGACA TTCGGGCAAA TAGCATCTGT  
GGATTAATTG ATCTCATCCT GACCACTGGA ATAGATACAC CATGCATTGT CCTGTCATAT  
ATCTTAATTA TTCACTCTGT CCTCAGAATT GCCTCCCCTG AAGAATGGCA CAAGGTCTTC  
AGCACCTGTG TCTCCCATGT GGGAGCAGTT GCTTTCTTCT ACATCCACAT GCTGAGCCTG  
TCCTTGGTGT ATCGCTATGG TCGGTCAGCC CCCAGAGTAG TCCATTCACT GATGGCTAAT  
GTATACCTGC TTTTACCCCC TGTGCTCAAC CCCATCATCG ACAGTGTAAC AACAAAACAA  
ATCCGCAAGG CTATGCTCAG TCTGCTGCTT ACAAATGA

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: OR51F1

Alternative Name: OR51F1 ([OR51F1 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. This olfactory receptor gene is a segregating pseudogene, where some individuals have an allele that encodes a functional olfactory

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## Target Details

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receptor, while other individuals have an allele encoding a protein that is predicted to be non-functional. [provided by RefSeq, Jun 2015].

Gene ID: 256892

NCBI Accession: [NM\\_001004752](#)

## 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)