

Datasheet for ABIN4926063

## Human OR51G2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR51G2
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 OR51G2 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	945 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGACCCTGG GATCCCTGGG AACAGCAGC AGCAGCGTTT CTGCTACCTT CCTGCTGAGT GGCATCCCTG GGCTGGAGCG CATGCACATC TGGATCTCCA TCCCACTGTG CTTTCATGTAT CTGGTTTCCA TCCCGGGCAA CTGCACAATT CTTTTTATCA TTA AACAGA GCGCTCACTT CATGAACCTA TGTATCTCTT CCTGTCCATG CTGGCTCTGA TTGACCTGGG TCTCTCCCTT TGCACTCTCC CTACAGTCCT GGCATCTTT TGGGTTGGAG CACGAGAAAT TAGCCATGAT

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## Product Details

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GCCTGCTTTG CTCAGCTCTT TTTTCATTCAC TGCTTCTCCT TCCTCGAGTC CTCTGTGCTA  
CTGTCTATGG CCTTTGACCG CTTTGTGGCT ATCTGCCACC CTTTGCACTA TGTTTCCATT  
CTCACCAACA CAGTCATTGG CAGGATTGGC CTGGTCTCTC TGGGTCGTAG TGTAGCACTC  
ATTTTTCCAT TACCTTTTAT GCTCAAAAAGA TTCCCCTATT GTGGCTCCCC AGTTCTCTCA  
CATTCTTATT GTCTCCACCA AGAAGTGATG AAATTGGCCT GTGCCGACAT GAAGGCCAAC  
AGCATCTACG GCATGTTTGT CATCGTCTCT ACAGTGGGTA TAGACTCACT GCTCATCCTC  
TTCTCTTATG CTCTGATCCT GCGCACCGTG CTGTCCATCG CCTCCAGGGC TGAGAGATTC  
AAGGCCCTTA ACACCTGTGT TTCCCACATC TGTGCTGTGC TGCTCTTCTA CACTCCCATG  
ATTGGCCTCT CTGTCATCCA TCGCTTTGGA AAGCAGGCAC CCCACCTGGT CCAGGTGGTC  
ATGGGTTTCA TGTATCTTCT CTTTCCTCCT GTGATGAATC CCATTGTCTA CAGTGTGAAG  
ACCAAACAGA TCCGGGATCG AGTGACGCAT GCCTTTTGTT ACTAA

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:	<ul style="list-style-type: none"><li>• Forward primer: 5'-TAATACGACTCACTATAGGG-3'</li><li>• Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'</li></ul>
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:	OR51G2
Alternative Name:	OR51G2 ( <a href="#">OR51G2 Products</a> )
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: 81282

NCBI Accession: [NM\\_001005238](#)

## 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)