

Datasheet for ABIN4926056

## Human OR52E2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR52E2
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 OR52E2 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	978 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGTTCTTC CCAATGACAC CCAGTTTCAC CCCTCCTCCT TCCTGTTGCT GGGGATCCCA GGACTAGAAA CACTTCACAT CTGGATCGGC TTTCCCTTCT GTGCTGTGTA CATGATCGCA CTCATAGGGA ACTTCACTAT TCTACTTGTG ATCAAGACTG ACAGCAGCCT ACACCAGCCC ATGTTCTACT TCCTGGCCAT GTTGGCCACC ACTGATGTGG GTCTCTCAAC AGCTACCATC CCTAAGATGC TTGGAATCTT CTGGATCAAC CTCAGAGGGA TCATCTTTGA AGCCTGCCTC

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## Product Details

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ACCCAGATGT TTTTATCCA CAACTCACA CTTATGGAGT CAGCAGTCCT TGTGGCAATG  
GCTTATGACA GCTATGTGGC CATCTGCAAT CCACTCCAAT ATAGCGCCAT CCTCACCAAC  
AAGGTTGTTT CTGTGATTGG TCTTGGTGTG TTTGTGAGGG CTTTAATTTT CGTCATTCCC  
TCTATACTTC TTATATTGCG GTTGCCCTTC TGTGGGAATC ATGTAATTCC CCACACCTAC  
TGTGAGCACA TGGGTCTTGC TCATCTATCT TGTGCCAGCA TCAAAATCAA TATTATTTAT  
GGTTTATGTG CCATTTGTAA TCTAGTGTTT GACATCACAG TCATTGCCCT TTCTTATGTG  
CATATTCTTT GTGCTGTTTT CCGTCTTCCT ACTCATGAAG CCCGACTCAA GTCCCTCAGC  
ACATGTGGTT CACATGTGTG TGTAATCCTT GCCTTCTATA CACCAGCCCT CTTTTCTTTT  
ATGACTCATC GCTTTGGCCG AAATGTGCCG CGCTATATCC ATATACTCCT AGCCAATCTC  
TATGTTGTGG TGCCACCAAT GCTCAATCCT GTCATATATG GAGTCAGAAC CAAGCAGATC  
TATAAATGTG TGAAGAAAAT ATTATTGCAG GAACAAGGAA TGGAAAAGGA AGAGTACCTA  
ATACATACGA GGTTCTGA

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: OR52E2

Alternative Name: OR52E2 ([OR52E2 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: 119678

NCBI Accession: [NM\\_001005164](#)

## 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)