

Datasheet for ABIN4925956

## Human OR8K5 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR8K5
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 OR8K5 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	924 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGGCCAAC ACAATCTAAC AGTGCTAACT GAATTCATTC TGATGGA ACT CACAAGGCGG CCTGAGCTGC AGATCCCCT TTTTGGAGTC TTCCTCGTCA TCTACCTAAT CACAGTGGTG GGCAACCTAA CTATGATCAT TTTGACCAAA CTGGACTCCC ACTTACATAC ACCTATGTAC TTTTCTATCA GACATTTGGC TTTTGTGAT CTTGGTAATT CACTGTGCAT TTGTCCCAAG GTGCTGGCAA ATTTTGTGT GGATCGAAAT ACTATTTCTT ATTATGCATG TGCTGCACAG

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## Product Details

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CTGGCATTCT TCCTTATGTT CATTATCAGT GAATTTTTCA TCCTGTCAGC CATGGCCTAT  
GACCGCTATG TGGCCATTTG TAACCCTCTG CTCTATTATG TTATTATGTC TCAGCGACTG  
TGTCATGTAC TGGTGGGCAT TCAATATCTC TACAGCACAT TTCAGGCTCT GATGTTCACT  
ATTAAGATTT TTACATTGAC CTTCTGTGGC TCTAATGTCA TCAGTCATTT TTAAGTGTAT  
GATGTTCCCT TGCTACCTAT GCTTTGCTCA AATGCACAGG AAATAGAATT GTTGAGCATA  
CTATTTTCTG TATTTAATTT GATCTCCTCC TTTCTGATAG TCTTAGTGTC CTACATGTTG  
ATTTTGTTAG CTATATGTCA AATGCATTCT GCAGAGGGCA GGAAAAAGGC TTTCTCCACA  
TGTGGTTCCC ATTTGACAGT GGTGGTTGTG TTCTATGGGT CTCTACTCTT CATGTACATG  
CAGCCCAATT CCACTCACTT CTTTGATACT GATAAAATGG CTTCTGTGTT TTACACTTTA  
GTAATCCCCA TGCTTAACCC TTTGATTTAC AGCTTAAGAA ACGAAGAGGT GAAAAATGCC  
TTCTATAAGC TCTTTGAGAA TTGA

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: OR8K5

Alternative Name: OR8K5 ([OR8K5 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: 219453

NCBI Accession: [NM\\_001004058](#)

## 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)