

Datasheet for ABIN4918724

## Human OR5K4 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR5K4
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 OR5K4 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	966 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGCTAGGG AAAATCACTC CTTAGCAGCT GAATTCATCC TCATAGGATT TACAAATTAT CCAGAGCTGA AGACGCTTCT GTTTGTGGTG TTCTCTGCCA TCTATCTGGT CACCATGGTG GGGAATCTTG GTCTGGTGGC ATTAATTTAT GTAGAGCGTC GTCTTCTCAC ACCAATGTAC ATCTTTCTGG GCAACCTGGC TCTGATGGAT TCCTGCTGTT CCTGTGCTGT TACCCCAAG ATGTTAGAGA ATTTCTTTTC TGAGGATAGA ATTATTTCCC TGTATGAATG TATGGCACAA

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## Product Details

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TTTTATTTTC TCTGTCTTGC TGAAACCACA GACTGCTTTC TTCTGGCGAC AATGGCCTAT  
GACCGCTATG TGGCCATATG CCACCCACTG CAGTACCACA CCATGATGTC CAAGACGCTC  
TGCATTCGGA TGACCACAGG GGCCTTCAA GCTGGAAACC TGCATTCCAT GATTCATGTA  
GGGCTTTTAT TAAGGTTAAC TTTCTGCAGG TCTAATAAAA TTCACCACTT TTTCTGTGAT  
ATTCTTCCAC TGTATAGACT CTCCTGTACA GATCCTTCTA TTAATGAACT AATGATATAT  
ATCTTTTCAA TACCAATTCA AATCTTTACC ATTGCTACTG TCTTGATCTC TTATCTCTGC  
ATCCTTTTGA CTGTTTTCAA AATGAAATCC AAGGAGGGAA GAGGTAAAGC ATTTTCTACC  
TGTGCATCCC ACTTTCTCTC TGTCTCAATA TTTTACATTT GTCTTCTCAT GTATATTGGA  
CCATCTGAAG AAGGAGATAA AGATACACCA GTGGCAATAT TTTATGCAAT AGTAATCCCA  
TTACTAAACC CTTTTATTTA TAGTCTGAGA AATAAGGAGG TCATAAATGT TCTTAAAAAA  
ATTATGAGGA ATTATAACAT TCTTAAACAA ACTTGCTCTA TAGCAAATTT ATTTTAAATT  
TATTAA

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: OR5K4

Alternative Name: OR5K4 ([OR5K4 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: 403278

NCBI Accession: [NM\\_001005517](#)

## 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)