

Datasheet for ABIN4926035

## Human OR5B21 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR5B21
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 OR5B21 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	930 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGAGAATA GCACAGAAGT GACAGAGTTT ATCCTCTTGG GATTAACAGA TGACCCCAAT CTTCAGATAC CCCTCCTCCT GGCATTTTTTA TTCATCTACC TCATCACCCCT GCTTGGGAAT GGGGGAATGA TGGTGATCAT CCACTCAGAC TCCCATCTCC AACTCCAAT GTACTTTTTTC CTCAGTAACC TCTCCCTTGT AGACTTGGGT TACTCATCAG CTGTAGCCCC CAAAACGGTG GCTGCATTGC GGTCAGGGGA CAAGGCCATC TCCTACGATG GATGTGCAGC TCAGTTCTTC

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## Product Details

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TTCTTTGTGG GGTTTGCCAC TGTTGAGTGC TACCTCCTGG CCTCCATGGC CTATGATCGC  
CATGCAGCGG TATGTAGGCC TCTTCATTAC ACCACCACCA TGACAGCAGG TGTGTGTGCC  
CTCCTTGCTA CTGGTTCCTA TGTCTCTGGC TTCCTCAATG CCTCTATCCA TGCAGCAGGC  
ACCTTCAGAC TCTCCTTCTG TGGTTCTAAT GAGATTAATC ATTTCTTCTG TGACATTCCC  
CCACTCCTGG CTCTCTCATG CTCTGACACA CGCATCAGCA AGTTGGTGGT CTTTGTGGCA  
GGCTTCAACG TCTTTTTTAC CCTCCTGGTC ATCCTTATTT CTTACTTCTT CATATGCATC  
ACCATTCAGA GGATGCATTC TGCTGAAGGG CAGAAGAAAG TCTTCTCCAC CTGTGCTTCC  
CATCTCACTG CTTTGTCCAT CTTCTATGGC ACAATCATCT TCATGTACTT ACAGCCCAAC  
TCCAGCCAGT CCGTGGACAC AGACAAAATA GCCTCTGTGT TTTACACAGT GGTGATTCCC  
ATGCTGAATC CCTTGATATA CAGCCTTAGG AACAAAGAAG TGAAAAGTGC TCTCTGGAAA  
ATACTCAACA AACTTTACCC CCAATATTA

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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.

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## Target Details

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Gene:	OR5B21
Alternative Name:	OR5B21 ( <a href="#">OR5B21 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: 219968

NCBI Accession: [NM\\_001005218](#)

## 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)