

Datasheet for ABIN4926158

## Human OR2A42 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	OR2A42
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 OR2A42 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	933 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGGGGAAA ATCAGACAAT GGTCACAGAG TTCCTCCTAC TGGGATTCTCT CCTGGGCCCA AGGATTCAGA TGCTCCTCTT TGGGCTCTTC TCCCTGTTCT ATATCTTCAC CCTGCTGGGG AACGGGGCCA TCCTGGGGCT CATCTCACTG GACTCCAGAC TCCACACCCC CATGTACTTC TTCCTCTCAC ACCTGGCTGT CGTCGACATC GCCTACACCC GCAACACGGT GCCCCAGATG CTGGCGAACC TCCTGCATCC AGCCAAGCCC ATCTCCTTTG CTGGTTGCAT GACGCAGACC

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## Product Details

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TTTCTCTGTT TGAGTTTTGG ACACAGCGAA TGTCTCCTGC TGGTGCTGAT GTCCTACGAT  
CGTTACGTGG CCATCTGCCA CCCTCTCCGA TACTCCGTCA TCATGACCTG GAGAGTCTGC  
ATCACCCCTGG CCGTCACTTC CTGGACGTGT GGCTCCCTCC TGGCTCTGGC CCATGTGGTT  
CTCATCCTAA GACTGCCCTT CTCTGGGCCT CATGAAATCA ACCACTTCTT CTGTGAAATC  
CTGTCTGTCC TCAGGCTGGC CTGTGCTGAC ACCTGGCTCA ACCAGGTGGT CATCTTTGCA  
GCCTGCGTGT TCTTCCTGGT GGGGCCACCC AGCCTGGTGC TTGTCTCCTA CTCGCACATC  
CTGGCGGCCA TCCTGAGGAT CCAGTCTGGG GAGGGCCGCA GAAAGGCCTT CTCCACCTGC  
TCCTCCCACC TCTGCGTGGT GGGACTCTTC TTTGGCAGTG CCATCATCAT GTACATGGCC  
CCCAAGTCCC GCCATCTGA GGAGCAGCAA AAGGTCTTTT TTCTATTTTA CAGTTTTTTC  
AACCCAACAC TTAACCCCT GATTTACAGC CTGAGGAACG GAGAGGTCAG GGGTGCCCTG  
AGGAGAGCAC TGGGCAAGGA AAGTCATTCC TAA

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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:	OR2A42
Alternative Name:	OR2A42 ( <a href="#">OR2A42 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: 402317

NCBI Accession: [NM\\_001001802](#)

## 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)