

Datasheet for ABIN4925964

Human OR8G5 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OR8G5
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 OR8G5 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1041 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGATCATAT ATAAACAAGG GATCACTTTC CTACAAAAGG AGAATAACAA TACAATTCAC CTAAATACCA TGTTTTTCT CTCCCCTGCA GAAACTCATC AAAGAATGGC AGCAGAAAAC CATTCTTTTG TGACTAAGTT TATTCTGGTT GGGCTAACAG AGAAGTCAGA GCTACAGCTG CCCCTCTTCC TCGTCTTCT GGAATCTAT GTAGTCACAG TGCTGGGGAA CCTGGGCATG ATCACACTGA TTGGGCTCAG TTCTCACCTG CACACACCTA TGTACTGTTT CCTCAGCAGT

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Product Details

CTGTCCTTCA TTGACTTCTG CCATTCCACT GTCATTACCC CTAAGATGCT GGTGAACTTT
GTGACAGAGA AGAACATCAT CTCCTACCT GAATGCATGA CTCAGCTCTA CTTCTTCCTC
GTTTTTGCTA TTGCAGAGTG TCACATGTTG GCTGCAATGG CATATGACGG CTACGTGGCC
ATCTGTAGCC CTTGCTGTA CAGCATCATC ATATCCAATA AGGCTTGCTT TTCTCTGATT
TTAGTGGTGT ATGTAATAGG CCTGATTTGT GCGTCAGCTC ATATAGGCTG TATGTTTAGG
GTTCAATTCT GCAAATTTGA TGTGATCAAC CATTATTTCT GTGATCTTAT TTCTATCTTG
AAGCTCTCCT GTTCTAGTAC TTACATTAAT GAGTTACTGA TTTAATCTT TAGTGAATT
AACATCCTTG TCCCCAGCCT GACCATCCTC AGCTCTTACA TCTTCATCAT TGCCAGCATC
CTCCGCATTC GCTACACTGA GGGCAGGTCC AAAGCCTTCA GCACTTGACG CTCCCACATC
TCGGCTGTTT CTGTTTTCTT TGGGTCTGCA GCATTCATGT ACCTGCAGCC ATCATCTGTC
AGCTCCATGG ACCAGGGGAA AGTGCCTCT GTGTTTTATA CTATTGTTGT GCCCATGCTG
AACCCCTGA TCTACAGCCT GAGGAATAAA GATGTCCACG TTGCCCTGAA GAAAACGCTA
GGGAAAAGAA CATTCTTATG A

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

Gene: OR8G5

Alternative Name: OR8G5 ([OR8G5 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

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Target Details

organism is independent of other organisms. [provided by RefSeq, Jul 2008].

Gene ID: 219865

NCBI Accession: [NM_001005198](#)

Application Details

Restrictions: For Research Use only

Handling

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

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)