

Datasheet for ABIN4925957

Human OR8K3 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

| | |
|--------------|-----------------------------|
| Quantity: | 10 µg |
| Gene: | OR8K3 |
| 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 OR8K3 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells. |
| Brand: | GenEZ™ |
| Insert Length: | 939 bp |
| Vector Backbone: | pcDNA3.1+C-(K)-DYK |
| Promoter: | CMV Promoter |
| Selectable Marker: | Neomycin |
| Bacterial Resistance: | Ampicillin |
| Expression Type: | Transient, Stable |
| Sequence: | <p>ATGGAACAAC ACAATCTAAC AACGGTGAAT GAATTCATTC TTACGGGAAT CACAGATATC GCTGAGCTGC AGGCACCATT ATTTGCATTG TTCCTCATGA TCTATGTGAT CTCAGTGATG GGCAATTTGG GCATGATTGT CCTCACCAAG TTGGACTCCA GGTTGCAAAC CCCTATGTAC TTTTTCTCA GACATCTGGC TTTCATGGAT CTTGGTTATT CAACAACGTG GGGACCCAAA ATGTTAGTAA ATTTTGTGTG GGATAAGAAT ATAATTTCTT ATTATTTTTG TGCAACACAG</p> |

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Product Details

CTAGCTTTCT TTCTTGTTT CATTGGTAGT GAACTTTTTA TTCTCTCAGC CATGTCCTAC
GACCTCTATG TGGCCATCTG TAACCCTCTG CTATACACAG TAATCATGTC ACGAAGGGTA
TGTCAGGTGC TGGTAGCAAT CCCTTACCTC TATTGCACAT TCATTTCTCT TCTAGTCACC
ATAAAGATTT TACTTTTATC CTTCTGTGGC TACAACGTCA TTAGTCATTT CTA CTACTGTGAC
AGTCTCCCTT TGTTACCTTT GCTTTGTTCA AATACACATG AAATTGAATT GATAATTCTG
ATCTTTGCAG CTATTGATTT GATTTTCATCT CTTCTGATAG TTCTTTTATC TTACCTGCTC
ATCCTTGTAG CCATTCTCAG GATGAATTCT GCTGGCAGAC AAAAGGCTTT TTCTACCTGT
GGAGCCCACC TGACAGTGGT CATAGTGTTT TATGGGACTT TGCTTTTCAT GTACGTGCAG
CCCAAGTCCA GTCATTCCTT TGACACTGAT AAAGTGGCTT CCATATTTTA CACCCTGGTT
ATCCCCATGT TGAATCCCTT GATCTATAGT TTACGAAACA AAGATGTAAA ATATGCCCTA
CGAAGGACAT GGAATAACTT ATGTAATATT TTTGTTTAA

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: OR8K3

Alternative Name: OR8K3 ([OR8K3 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. This olfactory receptor gene is a segregating pseudogene, where some individuals have an allele that encodes a functional olfactory

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Target Details

receptor, while other individuals have an allele encoding a protein that is predicted to be non-functional. [provided by RefSeq, Jun 2015].

Gene ID: 219473

NCBI Accession: [NM_001005202](#)

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)