

Datasheet for ABIN4926248

Human OPN1MW2 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	OPN1MW2
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 OPN1MW2 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1095 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGCCCAGC AGTGGAGCCT CCAAAGGCTC GCAGGCCGCC ATCCGCAGGA CAGCTATGAG GACAGCACCC AGTCCAGCAT CTTACCTAC ACCAACAGCA ACTCCACCAG AGGCCCCCTTC GAAGGCCCGA ATTACCACAT CGTCCCAGA TGGGTGTACC ACCTCACCAG TGTCTGGATG ATCTTTGTGG TCATTGCATC CGTCTTCACA AATGGGCTTG TGCTGGCGGC CACCATGAAG

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Product Details

TTCAAGAAGC TGCGCCACCC GCTGAACTGG ATCCTGGTGA ACCTGGCGGT CGCTGACCTG
GCAGAGACCG TCATCGCCAG CACTATCAGC GTTGTGAACC AGGTCTATGG CTA CTTCGTG
CTGGGCCACC CTATGTGTGT CCTGGAGGGC TACACCGTCT CCCTGTGTGG GATCACAGGT
CTCTGGTCTC TGGCCATCAT TTCCTGGGAG AGATGGATGG TGGTCTGCAA GCCCTTTGGC
AATGTGAGAT TTGATGCCAA GCTGGCCATC GTGGGCATTG CCTTCTCCTG GATCTGGGCT
GCTGTGTGGA CAGCCCCGCC CATCTTTGGT TGGAGCAGGT ACTGGCCCCA CGGCCTGAAG
ACTTCATGCG GCCCAGACGT GTTCAGCGGC AGCTCGTACC CCGGGGTGCA GTCTTACATG
ATTGTCCTCA TGGTCACCTG CTGCATCACC CCACTCAGCA TCATCGTGCT CTGCTACCTC
CAAGTGTGGC TGGCCATCCG AGCGGTGGCA AAGCAGCAGA AAGAGTCTGA ATCCACCCAG
AAGGCAGAGA AGGAAGTGAC GCGCATGGTG GTGGTGATGG TCCTGGCATT CTGCTTCTGC
TGGGGACCCT ACGCCTTCTT CGCATGCTTT GCTGCTGCCA ACCCTGGCTA CCCCTTCCAC
CCTTTGATGG CTGCCCTGCC GGCCTTCTTT GCCAAAAGTG CCACTATCTA CAACCCCGTT
ATCTATGTCT TTATGAACCG GCAGTTTCGA AACTGCATCT TGCAGCTTTT CGGGAAGAAG
GTTGACGATG GCTCTGAACT CTCCAGCGCC TCCAAAACGG AGGTCTCATC TGTGTCTCTCG
GTATCGCCTG CATGA

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: OPN1MW2

Alternative Name: OPN1MW2 ([OPN1MW2 Products](#))

Background: This gene encodes for a light absorbing visual pigment of the opsin gene family. The encoded protein is called green cone photopigment or medium-wavelength sensitive opsin. Opsins are G-protein coupled receptors with seven transmembrane domains, an N-terminal extracellular domain, and a C-terminal cytoplasmic domain. The long-wavelength opsin gene and multiple copies of the medium-wavelength opsin gene are tandemly arrayed on the X chromosome and

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Target Details

frequent unequal recombination and gene conversion may occur between these sequences. X chromosomes may have fusions of the medium- and long-wavelength opsin genes or may have more than one copy of these genes. Defects in this gene are the cause of deutanopic colorblindness. [provided by RefSeq, Mar 2009].

Gene ID: 728458

NCBI Accession: [NM_001048181](#)

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)