

Datasheet for ABIN4930039

Human ERVW-1 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	ERVW-1
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 ERVW-1 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1617 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	<p>ATGGCCCTCC CTTATCATAT TTTTCTCTTT ACTGTTCTTT TACCCTCTTT CACTCTCACT</p> <p>GCACCCCTC CATGCCGCTG TATGACCAGT AGCTCCCCTT ACCAAGAGTT TCTATGGAGA</p> <p>ATGCAGCGTC CCGGAAATAT TGATGCCCCA TCGTATAGGA GTCTTTCTAA GGGAACCCCC</p> <p>ACCTTCACTG CCCACACCCA TATGCCCCGC AACTGCTATC ACTCTGCCAC TCTTTGCATG</p> <p>CATGCAAATA CTCATTATTG GACAGGAAAA ATGATTAATC CTAGTTGTCC TGGAGGACTT</p>

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Product Details

GGAGTCACTG TCTGTTGGAC TTACTTCACC CAACTGGTA TGTCTGATGG GGGTGGAGTT
CAAGATCAGG CAAGAGAAAA ACATGTAAAA GAAGTAATCT CCCAACTCAC CCGGGTACAT
GGCACCTCTA GCCCCTACAA AGGACTAGAT CTCTCAAAC TACATGAAAC CCTCCGTACC
CATACTCGCC TGGTAAGCCT ATTTAATACC ACCCTCACTG GGCTCCATGA GGTCTCGGCC
CAAACCCCTA CTAAGTGTG GATATGCCTC CCCCTGAACT TCAGGCCATA TGTTTCAATC
CCTGTACCTG AACAATGGAA CAACTTCAGC ACAGAAATAA ACACCACTTC CGTTTTAGTA
GGACCTCTTG TTTCCAATCT GGAAATAACC CATACTCAA ACCTCACCTG TGAAAAATTT
AGCAATACTA CATAACAAC CAACTCCCAA TGCATCAGGT GGGTAACTCC TCCCACACAA
ATAGTCTGCC TACCCTCAGG AATATTTTTT GTCTGTGGTA CCTCAGCCTA TCGTTGTTTG
AATGGCTCTT CAGAATCTAT GTGCTTCCTC TCATTCTTAG TGCCCCCTAT GACCATCTAC
ACTGAACAAG ATTTATACAG TTATGTCATA TCTAAGCCCC GCAACAAAAG AGTACCCATT
CTTCCTTTTG TTATAGGAGC AGGAGTGCTA GGTGCACTAG GACTGGCAT TGGCGGTATC
ACAACCTCTA CTCAGTTCTA CTACAAACTA TCTCAAGAAC TAAATGGGGA CATGGAACGG
GTCGCCGACT CCCTGGTCAC CTTGCAAGAT CAACTTAACT CCCTAGCAGC AGTAGTCCTT
CAAATCGAA GAGCTTTAGA CTTGCTAACC GCTGAAAGAG GGGGAACCTG TTTATTTTTA
GGGAAGAAT GCTGTTATTA TGTTAATCAA TCCGGAATCG TCACTGAGAA AGTTAAAGAA
ATTCGAGATC GAATACAACG TAGAGCAGAG GAGCTTCGAA AACTGGACC CTGGGGCCTC
CTCAGCCAAT GGATGCCCTG GATTCTCCCC TTCTTAGGAC CTCTAGCAGC TATAATATTG
CTACTCCTCT TTGGACCCTG TATCTTTAAC CTCCTTGTTA ACTTTGTCTC TTCCAGAATC
GAAGCTGTAA AACTACAAAT GGAGCCCAAG ATGCAGTCCA AGACTAAGAT CTACCGCAGA
CCCCTGGACC GGCCTGCTAG CCCACGATCT GATGTTAATG ACATCAAAGG CACCCCTCCT
GAGGAAATCT CAGCTGCACA ACCTCTACTA CGCCCCAATT CAGCAGGAAG CAGTTAG

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: ERVW-1

Alternative Name: ERVW-1 ([ERVW-1 Products](#))

Background: Many different human endogenous retrovirus (HERV) families are expressed in normal placental tissue at high levels, suggesting that HERVs are functionally important in reproduction. This gene is part of an HERV provirus on chromosome 7 that has inactivating mutations in the gag and pol genes. This gene is the envelope glycoprotein gene which appears to have been selectively preserved. The gene's protein product is expressed in the placental syncytiotrophoblast and is involved in fusion of the cytotrophoblast cells to form the syncytial layer of the placenta. The protein has the characteristics of a typical retroviral envelope protein, including a furin cleavage site that separates the surface (SU) and transmembrane (TM) proteins which form a heterodimer. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Mar 2010].

Gene ID: 30816

NCBI Accession: [NM_001130925](#)

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)

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