

Datasheet for ABIN4933025

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

Overview

Quantity:	10 µg
Gene:	Arylsulfatase H (ARSH)
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 ARSH with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1689 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGACAAGAA ACGCCAGACC CAACATTGTC CTGCTGATGG CAGATGACCT TGGAGTGGGG GATTTGTGCT GCTACGGTAA TAACTCAGTG AGCACACCTA ATATTGACCG CCTGGCAAGT GAAGGAGTGA GGCTTACCCA GCATCTCGCA GCTGCTTCCA TGTGCACCCC AAGTCGGGCT GCCTTCCTGA CCGGCCGGTA CCCCATCAGA TCAGGGATGG TGTCTGCCTA CAACCTGAAC CGTGCCTTCA CGTGGCTTGG TGGGTCAGGT GGTCTTCCCA CCAATGAAAC GACTTTTGGC

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AAGCTGCTGC AGCACCGTGG CTACCGCACG GGAATCATAG GCAAATGGCA CCTGGGTTTG
AGCTGCGCCT CTCGGAATGA TCACTGTTAC CACCCGCTCA ACCATGGTTT TCACTACTTT
TACGGGGTGC CTTTTGGACT TTTAAGCGAC TGCCAGGCAT CCAAGACACC AGAACTGCAC
CGCTGGCTCA GGATCAAACGT GTGGATCTCC ACGGTAGCCC TTGCCCTGGT TCCTTTTCTG
CTTCTCATTC CCAAGTTCGC CCGCTGGTTC TCAGTGCCAT GGAAGGTCAT CTTTGTCTTT
GCTCTCCTCG CCTTTCTGTT TTTCACTTCC TGGTACTCTA GTTATGGATT TACTCGACGT
TGGAATTGCA TCCTTATGAG GAACCATGAA ATTATCCAGC AGCCAATGAA AGAGGAGAAA
GTAGCTTCCC TCATGCTGAA GGAGGCACTT GCTTTCATTG AAAGGTACAA AAGGGAACCT
TTTCTCCTCT TTTTTTCTT CCTGCACGTA CATACTCCAC TCATCTCCAA AAAGAAGTTT
GTTGGGCGCA GTAAATATGG CAGGTATGGG GACAATGTAG AAGAAATGGA TTGGATGGTG
GGTAAAATCC TGGATGCCCT GGACCAGGAG CGCCTGGCCA ACCACACCTT GGTGTACTTC
ACCTCTGACA ACGGGGGCCA CCTGGAGCCC CTGGACGGGG CTGTTTCAGCT GGGTGGCTGG
AACGGGATCT ACAAGGTGG CAAAGGAATG GGAGGATGGG AAGGAGGTAT CCGTGTGCCA
GGGATATTCC GGTGGCCGTC AGTCTTGGAG GCTGGGAGAG TGATCAATGA GCCCACCAGC
TTAATGGACA TCTATCCGAC GCTGTCTTAT ATAGGCGGAG GGATCTTGTC CCAGGACAGA
GTGATTGACG GCCAGAACCT AATGCCCTG CTGGAAGGAA GGGCGTCCCA CTCCGACCAC
GAGTTCTCT TCCACTACTG TGGGGTCTAT CTGCACACGG TCAGGTGGCA TCAGAAGGAC
TGTGCAACTG TGTGGAAAGC TCATTATGTG ACTCCTAAAT TCTACCCTGA AGGAACAGGT
GCCTGCTATG GGAGTGAAT ATGTTTCATGT TCGGGGGATG TAACCTACCA CGACCCACCA
CTCCTCTTTG ACATCTCAAG AGACCCTTCA GAAGCCCTC CACTGAACCC TGACAATGAG
CCATTATTTG ACTCCGTGAT CAAAAAGATG GAGGCAGCCA TAAGAGAGCA TCGTAGGACA
CTAACACCTG TCCCACAGCA GTTCTCTGTG TTCAACACAA TTTGGAAACC ATGGCTGCAG
CCTTGCTGTG GGACCTTCCC CTTCTGTGGG TGTGACAAGG AAGATGACAT CCTTCCCATG
GCTCCCTGA

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: Arylsulfatase H (ARSH)

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

Background: Sulfatases, such as ARSH, hydrolyze sulfate esters from sulfated steroids, carbohydrates, proteoglycans, and glycolipids. They are involved in hormone biosynthesis, modulation of cell signaling, and degradation of macromolecules (Sardiello et al., 2005 [PubMed 16174644]).[supplied by OMIM, Mar 2008].

Gene ID: 347527

NCBI Accession: [NM_001011719](#)

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)