

Datasheet for ABIN4935438

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

Overview

Quantity:	10 µg
Gene:	SHOX
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 SHOX with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	879 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGAAGAGC TCACGGCTTT TGTATCCAAG TCTTTTGACC AGAAAAGCAA GGACGGTAAC GGCGGAGGCG GAGGCGGCGG AGGTAAGAAG GATTCCATTA CGTACCGGGA AGTTTTGGAG AGCGGACTGG CGCGCTCCCG GGAGCTGGGG ACGTCGGATT CCAGCCTCCA GGACATCACG GAGGGCGGCG GCCACTGCCC GGTGCATTTG TTCAAGGACC ACGTAGACAA TGACAAGGAG AAACTGAAAG AATTCGGCAC CGCGAGAGTG GCAGAAGGGA TTTATGAATG CAAAGAGAAG

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Product Details

CGCGAGGACG TGAAGTCGGA GGACGAGGAC GGGCAGACCA AGCTGAAACA GAGGCGCAGC
CGCACCAACT TCACGCTGGA GCAGCTGAAC GAGCTCGAGC GACTCTTCGA CGAGACCCAT
TACCCCGACG CCTTCATGCG CGAGGAGCTC AGCCAGCGCC TGGGGCTCTC CGAGGCGCGC
GTGCAGGTTT GGTTCAGAA CCGGAGAGCC AAGTGCCGCA AACAAGAGAA TCAGATGCAT
AAAGGCGTCA TCTTGGGCAC AGCCAACCAC CTAGACGCCT GCCGAGTGGC ACCCTACGTC
AACATGGGAG CCTTACGGAT GCCTTTCCAA CAGGTCCAGG CTCAGCTGCA GCTGGAAGGC
GTGGCCACG CGCACCCGCA CCTGCACCCG CACCTGGCGG CGCACGCGCC CTACCTGATG
TTCCCCCGC CGCCCTTCGG GCTGCCATC GCGTCGCTGG CCGAGTCCGC CTCGGCCGCC
GCCGTGGTCG CCGCCGCCG CAAAAGCAAC AGCAAGAATT CCAGCATCGC CGACCTGCGG
CTCAAGGCGC GGAAGCACGC GGAGGCCCTG GGGCTCTGA

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:	<ul style="list-style-type: none">• 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:	SHOX
Alternative Name:	SHOX (SHOX Products)
Background:	This gene belongs to the paired homeobox family and is located in the pseudoautosomal region 1 (PAR1) of X and Y chromosomes. Defects in this gene are associated with idiopathic growth retardation and in the short stature phenotype of Turner syndrome patients. This gene is highly conserved across species from mammals to fish to flies. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008].
Gene ID:	6473
NCBI Accession:	NM_000451

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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)