

Datasheet for ABIN3305054

Human SHOX cDNA Clone in Mammalian Expression Vector

Overview

Quantity:	10 µg
Gene:	SHOX
Species:	Human
Insert:	cDNA
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

Product Details

Purpose:	Untagged full-length cDNA clone from Human SHOX is ideal for over-expression of native protein for functional studies.
Brand:	TrueClones®
Vector Backbone:	pCMV6-Entry
Promoter:	Enhanced CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Kanamycin
Expression Type:	Transient
Specificity:	With the native stop codon at the end of the ORF the C-terminal Myc-DDK tag in the vector won't be expressed.
Characteristics:	<ul style="list-style-type: none"> • These cDNA clones are isolated from full-length cDNA libraries and usually contain the coding sequence as well as the untranslated regions (UTRs) of the mRNA transcript appropriate to the library from which they were isolated. • These cDNA clones are ideal for over-expression of native proteins for functional studies. Provided as 10 µg transfection-ready plasmids. • Every lot of primer is tested to provide clean sequencing of cDNA clones.

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Product Details

Purification:	The DNAs were purified using PowerPrep HP Plasmid isolation kits for transfection ready plasmids.
Sequencing Primer:	VP1.5 (forward) 5'GGACTTTCCAAAATGTCTG 3', XL39 (reverse) 5'ATTAGGACAAGGCTGGTGGG 3'
Components:	<ul style="list-style-type: none">• The cDNA clone is shipped in a 2-D bar-coded Matrix tube as dried plasmid DNA.• The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

Target Details

Gene:	SHOX
Alternative Name:	SHOX (SHOX Products)
Background:	<p>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].</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (SHOXa).</p>
NCBI Accession:	NM_000451 , NP_000442

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Storage:	RT, -20 °C
Storage Comment:	<p>The lyophilized plasmid is stable for up to one year when stored at ambient temperature. Following dissolution in 100 µL dH2O, store at -20 °C. Lyophilized primers are stable for up to one year when stored at ambient temperature. Following dissolution in 10 µL dH2O, store at -20 °C.</p>
Expiry Date:	12 months

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Publications

Product cited in: Oh, Liu, Yue, Kang, Chen, Taunton, Khuri, Sun: "ERK/ribosomal S6 kinase (RSK) signaling positively regulates death receptor 5 expression through co-activation of CHOP and Elk1." in: **The Journal of biological chemistry**, Vol. 285, Issue 53, pp. 41310-9, (2010) ([PubMed](#)).