

## **Product datasheet for RC219520L3**

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OriGene Technologies, Inc.

## SHOX2 (NM\_006884) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: SHOX2 (NM\_006884) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: SHOX2

Synonyms: OG12; OG12X; SHOT

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC219520).

Sgfl-Mlul

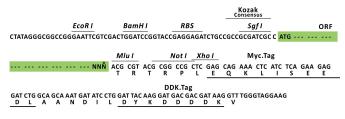
Sequence:

Restriction Sites: Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf 1 ORF Mlu 1

--- GCG ATC GCC ATG ---//--- NNN ACG CGT ---



 $<sup>\</sup>ensuremath{^*}$  The last codon before the Stop codon of the ORF.

ACCN: NM\_006884

ORF Size: 993 bp





## SHOX2 (NM\_006884) Human Tagged Lenti ORF Clone - RC219520L3

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 006884.1</u>, <u>NP 006875.2</u>

 RefSeq Size:
 1948 bp

 RefSeq ORF:
 996 bp

 Locus ID:
 6474

 UniProt ID:
 060902

**Protein Families:** Transcription Factors

3q25.32

**MW:** 34.8 kDa

Cytogenetics:

**Gene Summary:** This gene is a member of the homeobox family of genes that encode proteins containing a

60-amino acid residue motif that represents a DNA binding domain. Homeobox genes have been characterized extensively as transcriptional regulators involved in pattern formation in both invertebrate and vertebrate species. Several human genetic disorders are caused by aberrations in human homeobox genes. This locus represents a pseudoautosomal homeobox gene that is thought to be responsible for idiopathic short stature, and it is implicated in the short stature phenotype of Turner syndrome patients. This gene is

considered to be a candidate gene for Cornelia de Lange syndrome. Alternative splicing

results in multiple transcript variants. [provided by RefSeq, Jul 2009]