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Product datasheet for SC327806

SHOX2 (NM_003030) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHOX2 (NM_003030) Human Untagged Clone
Tag:	Tag Free
Symbol:	SHOX2
Synonyms:	OG12; OG12X; SHOT
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_003030 edited
CCACCTCCCTCTCCTCCCCCACCTCCTGTCCCATTGATGTGTTATTATTGGGGGGGCTGG
AGCAGTAAAAAAAGAAGAAGGAAAAAAAGAGCGGGGCTCTGCTGGCAGAGGTTGAGCGCC
GGGCTGACGTGCGGCGGCGATGGAAGAACTTACGGCGTTCGTCTCCAAGTCTTTTGACCA
GAAAGTGAAGGAGAAGAAGGAGGCGATCACGTACCGGGAGGTGCTGGAGAGCGGGCCGCT
GCGCGGGGCCAAGGAGCCGACCGGCTGCACCGAGGCGGGCCGCGACGACCGCAGCAGCCC
GGCAGTCCGGGCGGCCGGCGGAGGCGGCGGCGGAGGAGGCGGAGGCGGCGGCGGAGGAGG
CGGAGGAGGTGTAGGAGGAGGAGGAGCAGGCGGAGGAGCTGGAGGAGGGCGCTCTCCCGT
CCGGGAGCTGGACATGGGCGCCGCCGAGAGAAGCAGGGAGCCGGGCAGCCCGCGACTGAC
GGAGGGTAGAAGGAAGCCAACGAAAGCTGAGGTCCAGGCTACGCTGCTTCTCCCGGGCGA
GGCGTTTCGGTTTCTTGTGTCCCCGGAGCTGAAAGATCGCAAAGAGGATGCGAAAGGGAT
GGAGGACGAAGGCCAGACCAAAATCAAGCAGAGGCGAAGTCGGACCAATTTCACCCTGGA
ACAACTCAATGAGCTGGAGAGGCTTTTTGACGAGACCCACTATCCCGACGCCTTCATGCG
AGAGGAACTGAGCCAGCGACTGGGCCTGTCGGAGGCCCGAGTGCAGGTTTGGTTTCAAAA
TCGAAGAGCTAAATGTAGAAAACAAGAAAATCAACTCCATAAAGGTGTTCTCATAGGGGC
CGCCAGCCAGTTTGAAGCTTGTAGAGTCGCACCTTATGTCAACGTAGGTGCTTTAAGGAT
GCCATTTCAGCAGGATAGTCATTGCAACGTGACGCCCTTGTCCTTTCAGGTTCAGGCGCA
GCTGCAGCTGGACAGCGCTGTGGCGCACGCGCACCACCACCTGCATCCGCACCTGGCCGC
GCACGCGCCCTACATGATGTTCCCAGCACCGCCCTTCGGACTGCCGCTCGCCACGCTGGC
CGCGGATTCGGCTTCCGCCGCCTCGGTAGTGGCGGCCGCAGCAGCCGCCAAGACCACCAG
CAAGAACTCCAGCATCGCCGATCTCAGACTGAAAGCCAAAAAGCACGCCGCAGCCCTGGG
TCTGTGACGCCAACGCCAGCACCAATGTCGCGCCTGTCCCGCGGCACTCAGCCTGCACGC
CCTCCGCGCCCCGCTGCTTCTCCGTTACCCCTTTGAGACCTCGGGAGCCGGCCCTCTTCC
CGCCTCACTGACCATCCCTCGTCCCCTATCGCATCTTGGACTCGGAAAGCCAGACTCCAC
GCAGGACCAGGGATCTCACGAGGCACGCAGGCTCCGTGGCTCCTGCCCGTTTTCCTACTC
GAGGGCCTAGAATTGGGTTTTGTAGGAGCGGGTTTGGGGGAGTCTGGAGAGAGACTGGAC
AGGGGAGTGCTGGAACCGCGGAGTTTGGCTCACCGCAAAGCTACAACGATGGACTCTTGC
ATAGAAAAAAAAATCTTGTTAACAATGAAAAAATGAGCAAACAAAAAAATCGAAAGACAA
ACGGGAGAGAAAAAGAGGAAGGAAACTTATTTCTTAACTGCTATTTGGCAGAAGCTGAAA
TTGGAGAACCAAGGAGCAAAAACAAATTTTAAAATTAAAGTATTTTATACATTTAAAAAT
ATGGAAAAACAACCCAGACGATTCTCGAGAGACTGGGGGGAGTTACCAACTTAAATGTGT
GTTTTTAAAAATGCGCTAAGAAGGCAAAGCAGAAAGAAGAGGTATACTTATTTAAAAAAC
TAAGATGAAAAAAGTGCGCAGCTGGGAAGTTCACAGGTTTTGAAACTGACCTTTTTCTGC
GAAGTTCACGTTAATACGAGAAATTTGATGAGAGAGGCGGGCCTCCTTTTACGTTGAATC
AGATGCTTTGAGTTTAAACCCACCATGTATGGAAGAGCAAGAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_003030

Insert Size: 1400 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_003030.4.

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:	NM_003030.4, NP_003021.3
RefSeq Size:	3233 bp
RefSeq ORF:	1068 bp
Locus ID:	6474
UniProt ID:	O60902
Cytogenetics:	3q25.32
Protein Families:	Transcription Factors
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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (b). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.