

Product datasheet for **SC126448**

SHOX2 (BC008829) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHOX2 (BC008829) Human Untagged Clone
Tag:	Tag Free
Symbol:	SHOX2
Synonyms:	6330543G17Rik; OG12; Og12x; Prx3; short stature homeobox 2; SHOT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC008829 edited
 CCACCTCCCTCTCCTCCCCACCTCCTGTCCCATTGATGTGTTATTATTGGGGGGCTGG
 AGCAGTAAAAAAGAAGAAGGAAAAAAGAGCGGGGCTCTGCTGGCAGAGTTGAGCGCC
 GGGCTGACGTGCGGCGGCGATGGAAGAACTTACGGCGTTCGTCTCCAAGTCTTTTGACCA
 GAAAGTGAAGGAGAAGAAGGAGGCGATCACGTACCGGGAGGTGCTGGAGAGCGGGCCGCT
 GCGCGGGGCCAAGGAGCCGACCGGCTGCACCGAGGCGGGCCGCGACGACCGCAGCAGCCC
 CGCAGTCCGGGCGGCGGCGGAGGCGGCGGAGGAGGCGGAGGCGGCGGCGGAGGAGGAGG
 CGGAGGAGGTGTAGGAGGAGGAGGAGCAGGCGGAGGAGCTGGAGGAGGGCGCTCTCCCGT
 CCGGGAGCTGGACATGGGCGCCGCGAGAGAAGCAGGGAGCCGGGCGAGCCCGCGACTGAC
 GGAGGGTAGAAGGAAGCCAACGAAAGCTGAGGTCCAGGCTACGCTGCTTCTCCCGGGCGA
 GCGTTTTCGTTTTCTGTGTCCCGGAGCTGAAAGATCGCAAAGAGGATGCGAAAGGGAT
 GGAGGACGAAGGCCAGACCAAAATCAAGCAGAGGCGAAGTCGGACCAATTTACCCCTGGA
 ACAACTCAATGAGCTGGAGAGGCTTTTTGACGAGACCCACTATCCCGACGCCTTCATGCG
 AGAGGAACTGAGCCAGCGACTGGGCCTGTCCGAGGCCGAGTGCAGGTTTGGTTTCAAAA
 TCGAAGAGCTAAATGTAGAAAACAAGAAAATCAACTCCATAAAGGTGTTCTCATAGGGGC
 CGCCAGCCAGTTTGAAGCTTGTAGAGTCGCACCTTATGTCAACGTAGGTGCTTAAAGGAT
 GCCATTTGAGCAGGATAGTCATTGCAACGTGACGCCCTTGTCTTTGAGTTTCAGGCGCA
 GCTGCAGCTGGACAGCGCTGTGGCGCACGCGCACCACCACCTGCATCCGCACCTGGCCGC
 GCACGCGCCCTACATGATGTTCCAGCACCGCCCTTCGGACTGCCGCTCGCCACGCTGGC
 CGCGGATTCGGCTTCCGCGCCCTCGGTAGTGGCGGCCGAGCAGCCGCCAAGACCACCAG
 CAAGAACTCCAGCATCGCCGATCTCAGACTGAAAGCCAAAAAGCAGCCGCAGCCCTGGG
 TCTGTGACGCCAACGCCAGCACCATGTCGCGCCTGTCCCGGGCACTCAGCCTGCACGC
 CCTCCGCGCCCGCTGCTTCTCCGTTACCCCTTTGAGACCTCGGGAGCCGCCCTTCTCC
 CGCCTCACTGACCATCCCTCGTCCCTATCGCATCTTGGACTCGGAAAGCCAGACTCCAC
 GCAGGACCAGGGATCTCAGAGGACGCGAGGCTCCGTGGCTCCTGCCGTTTTCTACTC
 GAGGGCTAGAAATTGGGTTTTGTAGGAGCGGGTTTGGGGAGTCTGGAGAGAGACTGGAC
 AGGGGAGTGCTGGAACCGCGGAGTTTGGCTCACCGCAAAGCTACAACGATGGACTCTTGC
 ATAGAAAAAAAATCTTGTAAACAATGAAAAATGAGCAAACAAAAAATCGAAAGACAA
 ACGGGAGAGAAAAAGAGGAAGGAACTTATTTCTAACTGCTATTTGGCAGAAGTGAA
 TTGGAGAACCAAGGAGCAAAAACAATTTTAAATTAAGTATTTTATACATTTAAAAAT
 ATGAAAAACAACCCAGACGATTCTCGAGAGACTGGGGGAGTTACCAACTTAAATGTGT
 GTTTTTAAAAATGCGCTAAGAAGCAAAGCAGAAAGAAGAGGTATACTTATTTAAAAAAC
 TAAGATGAAAAAGTGGCGAGCTGGGAAGTTCACAGTTTTGAAACTGACCTTTTTCTGC
 GAAGTTACGTTAATACGAGAAATTTGATGAGAGAGGCGGGCCTCCTTTTACGTTGAATC
 AGATGCTTTGAGTTTAAACCCACCATGTATGGAAGAGCAAGAAAAAAGAAAAA

Restriction Sites: Please inquire

ACCN: BC008829

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).

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: [BC008829.2](#), [AAH08829.1](#)

RefSeq Size: 2039 bp

Locus ID: 6474

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]