

Product datasheet for **SC306509**

SP7 (NM_152860) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SP7 (NM_152860) Human Untagged Clone
Tag: Tag Free
Symbol: SP7
Synonyms: OI11; OI12; osterix; OSX
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_152860 edited
 CTCCTTGGGACCGTTCCCCAGCCTCAGGATGGCGTCCCTCGTTGAGGAGGAAGTTC
 ACTATGGCTCCAGTCCCCTGGCCATGCTGACGGCAGCGTGACGAAATTTGGTGGCTCTA
 GCCCTCTGCGGGACTCAACAACCTCTGGGCAAAGCAGGCACAAAGAAGCCGTA
 GCGAGTGACCTTTTTCAGCCTCCAAAACCATGGGGATGCTTATCCAGCCCCCTTTACAAGCA
 CTAATGGGCTCCTTTACCTGCAGGCAGTCTCCAGCACCCACCTCAGGCTATGCTAATG
 ATTACCTCCCTTTTCCCACTATTCCCTGGGCCACAGGCACCCAGGACCCTGGGCTAC
 TAGTGCCCAAGGGGCACAGCTCTTCTGACTGTCTGCCAGTGTCTACACCTCTCTGGACA
 TGACACACCCCTATGGCTCCTGGTACAAGGCAGGCATCCATGCAGGCATTTACCAGGCC
 CAGGCAACTCCTACTCCTATGGTGGGATATGCACCCTGGAGGCAACTGGCTAGGTGGT
 GGCAGGGCCAGGGTGATGGGCTGCAAGGGACACTGCCACAGGTCCAGCTCAGCCTCCAC
 TGAACCCCGAGCTGCCACCTACCCATCTGACTTTGCTCCCCTTAATCCAGCCCCCTACC
 CAGCTCCCCACCTCTTGCAACCAGGGCCCCAGCATGTCTTGCCCCAAGATGTCTATAAAC
 CCAAGGCAGTGGGAAATAGTGGGAGCTAGAAGGGAGTGGTGGAGCCAAACCCACGGG
 GTGCAAGCACTGGGGGTAGTGGTGGATATGGGGCAGTGGGGCAGGGCGCTCCTCCTGCG
 ACTGCCCTAATTGCCAGGAGCTAGAGCGGCTGGGAGCAGCAGCGGCTGGGCTGCGGAAGA
 AGCCCATCCACAGCTGCCACATCCCTGGCTGCGGCAAGGTGTATGGCAAGGCTTCGCACC
 TGAAGGCCCACTTGCCTGGCAGCAGGCGAGAGGCCCTTCGCTGCAACTGGCTCTTCT
 GCGGCAAGAGGTTCACTCGTTCGGATGAGCTGGAGCGTCATGTGCGCACTCACACCCGGG
 AGAAGAAGTTCACCTGCCTGCTCTGCTCCAAGCGCTTTACCCGAAGTGACCCACCTGAGCA
 AACACCAGCGCACCCACGGAGAACCAGGCCGGTCCCCCTCCAGTGGCCCCAAGGAGC
 TGGGGGAGGGCCGAGCAGCGGGGAAGAGGAGGCCAGTCAGACGCCCGACCTTCTGCCT
 CGCCAGCAACCCAGAGAAAGCCCTGGAGGCAGCCCTGAGCAGAGCAACTTGCTGGAGA
 TCTGAGCCGGGTGGAAGGTCTCCACCCAGGG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_152860 unedited GTCAACATTTGTATACGACTCATATAGGGCGGCCGGAATCGCCCTTCTGGCTCCTTGGG ACCCGTCCCCACCTCAGGAGGCGTCTCCCTGCTTGAGGAGGAAGTTCCTATGGCTCC AGTCCCCTGGCCATGCTGACGGCAGCGTGACGAAATTTGGTGGCTCTAGCCCTCTGCGG GACTCAACAACTCTGGGCAAAGCAGGCACAAAGAAGCCGACTCTGTGGGCAGTGACCTT TCAGCCTCCAAAACCATGGGGGATGCTTATCCAGCCCCCTTACAAGACTAATGGGCTC CTTTCACCTGCAGGCAGTCTCCAGCACCCACCTCAGGCTATGCTAATGATTACCCTCCC TTTTCCCACTCATTCCCTGGGCCACAGGCACCCAGGACCTGGGCTACTAGTGCCAAG GGGCACAGCTCTTCTGACTGTCTGCCAGTGTCTACACCTCTCTGGACATGACACACCCC TATGGCTCCTGGTACAAGGCAGGCATCCATGCAGGCATTTACCAGGCCAGGCAACACT CCTACTCCATGGTGGGATATGCACCCTGNAGGCAACTGGCTAGGTGGTGGGCAGGGCCAG GGTGATGGGCTGCAANGGACACTGCCACAGGTCCAGCTCAGCCTCCACTGAACCCCCAG CTGCCACCTACCCATCTGACTTTGCTCCCTTAATCCAGCCCCCTACCCAGCTCCCCAC CTCTTGNACACAGGGCCCAGCATGTCCGGCCCCAAGATGTCTATTAACCCAAAGCAGTG GGAATAGTGGGCAGCTAGAAAGGAGATGGTGGACCCAACCCCCACGGNGTTGCAAAGCA CTGGGGTAGTGGTTGAATATGGGCGAGTGGGGCN</p>
Restriction Sites:	Please inquire
ACCN:	NM_152860
Insert Size:	1400 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none"> 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_152860.1 , NP_690599.1

RefSeq Size: 2995 bp

RefSeq ORF: 1296 bp

Locus ID: 121340

UniProt ID: [Q8TDD2](#)

Cytogenetics: 12q13.13

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

Gene Summary: This gene encodes a member of the Sp subfamily of Sp/XKLF transcription factors. Sp family proteins are sequence-specific DNA-binding proteins characterized by an amino-terminal trans-activation domain and three carboxy-terminal zinc finger motifs. This protein is a bone specific transcription factor and is required for osteoblast differentiation and bone formation. [provided by RefSeq, Jul 2010]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (a).