

## Product datasheet for SC335966

### SP7 (NM\_001300837) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SP7 (NM_001300837) Human Untagged Clone
Tag:	Tag Free
Symbol:	SP7
Synonyms:	OI11; OI12; osterix; OSX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335966 representing NM_001300837. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGACGGCAGCGTGCAGCAAATTTGGTGGCTCTAGCCCTCTGCGGGACTCAACAACCTCTGGGCAA
GCAGGCACAAAGAAGCCGTACTCTGTGGGCAGTGACCTTTCAGCCTCCAAAACCATGGGGATGCTTAT
CCAGCCCCCTTTACAAGCACTAATGGGCTCCTTTCACCTGCAGGCAGTCTCCAGCACCCACCTCAGGC
TATGCTAATGATTACCCTCCCTTTCCCACTCATTCCCTGGGCCACAGGCACCCAGGACCTGGGCTA
CTAGTGCCCAAGGGGCACAGCTTCTGACTGTCTGCCAGTGTCTACACCTCTCTGGACATGACACAC
CCCTATGGCTCCTGGTACAAGGCAGGCATCCATGCAGGCATTTACCAGGCCAGGCAACACTCCTACT
CCATGGTGGGATATGCACCCTGGAGGCAACTGGCTAGGTGGTGGGCAGGGCCAGGGTGATGGGCTGCAA
GGGACACTGCCACAGTCCAGCTCAGCCTCCACTGAACCCCAAGCTGCCACCTACCCATCTGACTTT
GCTCCCCCTAATCCAGCCCCCTACCCAGCTCCCCACCTCTTGCAACCAGGGCCCCAGCATGTCTTGCCC
CAAGATGTCTATAAACCAAGGCAGTGGGAAATAGTGGGCAGCTAGAAGGGAGTGGTGGAGCCAAACCC
CCACGGGGTGCAAGCACTGGGGTAGTGGTGGATATGGGGCAGTGGGGCAGGGCCCTCCTCGCGAC
TGCCCTAATTGCCAGGAGCTAGAGCGGCTGGGAGCAGCAGCGGCTGGGCTGCGGAAGAAGCCCATCCAC
AGCTGCCACATCCCTGGCTGCGCAAGGTGTATGGCAAGGCTTCGCACCTGAAGGCCACTTGCCTGG
CACACAGGCGAGAGGCCCTTCGCTGCAACTGGCTCTTCTGCGCAAGAGGTTCACTCGTTCGGATGAG
CTGGAGCGTCATGTGCGCACTCACACCCGGGAGAAGAAGTTCACCTGCCTGCTCTGCTCCAAGCGCTTT
ACCCGAAGCGACCACCTGAGCAAACACCAGCGCACCCATGGAGAACCAGGCCCGGGTCCCCCTCCAGT
GGCCCCAAGGAGCTGGGGAGGGCCGCAGCACGGGGGAAGAGGAGGCCAGTCAAGCGCCCGACCTTCT
GCCTCGCCAGCAACCCAGAGAAAGCCCTGGAGGCAGCCCTGAGCAGAGCAACTTCTGGAGATCTGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001300837
<b>Insert Size:</b>	1242 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001300837.1</a></u>
<b>RefSeq Size:</b>	3211 bp
<b>RefSeq ORF:</b>	1242 bp
<b>Locus ID:</b>	121340
<b>UniProt ID:</b>	<u><a href="#">Q8TDD2</a></u>
<b>Cytogenetics:</b>	12q13.13
<b>Protein Families:</b>	ES Cell Differentiation/IPS, Transcription Factors
<b>MW:</b>	43.1 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' structure, resulting in the use of a downstream start codon, compared to variant 1. The encoded isoform (b) has a shorter N-terminus compared to isoform a.</p>