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Product datasheet for RC238072

SP7 (NM_001300837) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP7 (NM_001300837) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SP7
Synonyms:	OI11; OI12; osterix; OSX
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238072 representing NM_001300837 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTGACGGCAGCGTGCAGCAAATTTGGTGGCTCTAGCCCTCTGCGGGACTCAACAACTCTGGGCAAAG CAGGCACAAAGAAGCCGTACTCTGTGGGCAGTGACCTTTCAGCCTCCAAAACCATGGGGGATGCTTATCC AGCCCCCTTTACAAGCACTAATGGGCTCCTTTCACCTGCAGGCAGTCCTCCAGCACCCACCTCAGGCTAT GCTAATGATTACCCTCCCTTTTCCCACTCATTCCCTGGGCCCACAGGCACCCAGGACCCTGGGCTACTAG TGCCCAAGGGGCACAGCTCTTCTGACTGTCTGCCCAGTGTCTACACCTCTCTGGACATGACACACCCCTA TGGCTCCTGGTACAAGGCAGGCATCCATGCAGGCATTTCACCAGGCCCAGGCAACACTCCTACTCCATGG TGGGATATGCACCCTGGAGGCAACTGGCTAGGTGGTGGGCAGGGCCAGGGTGATGGGCTGCAAGGGACAC TGCCCACAGGTCCAGCTCAGCCTCCACTGAACCCCCAGCTGCCCACCTACCCATCTGACTTTGCTCCCCT TAATCCAGCCCCCTACCCAGCTCCCCACCTCTTGCAACCAGGGCCCCAGCATGTCTTGCCCCAAGATGTC TATAAACCCAAGGCAGTGGGAAATAGTGGGCAGCTAGAAGGGAGTGGTGGAGCCAAACCCCCACGGGGTG CAAGCACTGGGGGTAGTGGTGGATATGGGGGCAGTGGGGCAGGGCGCTCCTCCTGCGACTGCCCTAATTG CCAGGAGCTAGAGCGGCTGGGAGCAGCAGCGGCTGGGCTGCGGAAGAAGCCCATCCACAGCTGCCACATC CCTGGCTGCGGCAAGGTGTATGGCAAGGCTTCGCACCTGAAGGCCCACTTGCGCTGGCACACAGGCGAGA GGCCCTTCGTCTGCAACTGGCTCTTCTGCGGCAAGAGGTTCACTCGTTCGGATGAGCTGGAGCGTCATGT GCGCACTCACACCCGGGAGAAGAAGTTCACCTGCCTGCTCTGCTCCAAGCGCTTTACCCGAAGCGACCAC CTGAGCAAACACCAGCGCACCCATGGAGAACCAGGCCCGGGTCCCCCTCCCAGTGGCCCCAAGGAGCTGG GGGAGGGCCGCAGCACGGGGGAAGAGGAGGCCAGTCAGACGCCCCGACCTTCTGCCTCGCCAGCAACCCC AGAGAAAGCCCCTGGAGGCAGCCCTGAGCAGAGCAACTTGCTGGAGATC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

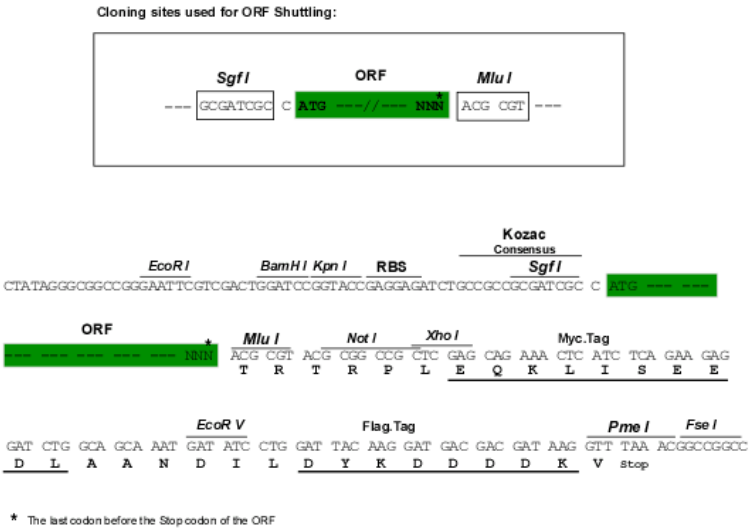
>RC238072 representing NM_001300837
Red=Cloning site Green=Tags(s)

MLTAACSKFGGSSPLRDSTTLGKAGTKKPYSVGSDLSASKTMGDAYPAPFTSTNGLLSPAGSPPAPTSGY
ANDYPPFSHSFPGPTGTQDPGLLVPKGHSSSDCLPSVYTSLDMTHPYGSWYKAGIHAGISPGPGNTPTPW
WDMHPGGNWLGGGQGQGDGLQGTLPTGPAQPPLNPQLPTYPSDFAPLNPAPYPAPHLLQPGPQHVLPQDV
YKPKAVGNSGQLEGSGGAKPPRGASTGGSGGYGGSGAGRSSCDCPNCQELERLGAAAAGLRKKPIHSCHI
PGCGKVYGKASHLKAHLRWHTGERPFVCNWLFCGKRFTRSDELERHVRTHTREKKFTCLLCSKRFTRSDH
LSKHQRTHGEPGPGPPPSGPKELGEGRSTGEEEASQTPRPSASPATPEKAPGGSPEQSNLLEI

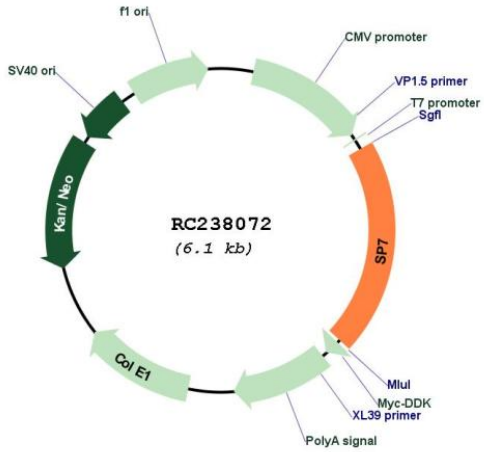
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001300837

ORF Size:	1239 bp
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:	NM_001300837.1, NP_001287766.1
RefSeq Size:	3211 bp
RefSeq ORF:	1242 bp
Locus ID:	121340
UniProt ID:	Q8TDD2
Cytogenetics:	12q13.13
Protein Families:	ES Cell Differentiation/IPS, Transcription Factors
MW:	43.5 kDa
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]