

Product datasheet for **RG230071**

SP7 (NM_001173467) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SP7 (NM_001173467) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SP7
Synonyms: OI11; OI12; osterix; OSX
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG230071 representing NM_001173467
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCTCCCTGCTTGGAGGAAGTTCCTACTATGGCTCCAGTCCCCTGGCCATGCTGACGGCAGCGT
GCAGCAAATTTGGTGGCTCTAGCCCTCTGCGGGACTCAACAACCTGGGCAAAGCAGGCACAAAGAAGCC
GTACTCTGTGGGCAGTGACCTTTCAGCCTCCAAAACCATGGGGGATGCTTATCCAGCCCCCTTTACAAGC
ACTAATGGGCTCCTTTCACCTGCAGGCAGTCTCCAGCACCCACCTCAGGCTATGCTAATGATTACCCTC
CCTTTTCCACTATTCCCTGGGCCACAGGCACCCAGGACCCTGGGCTACTAGTGCCCAAGGGGCACAG
CTTTCTGACTGTCTGCCAGTGTCTACACCTCTCTGGACATGACACACCCTATGGCTCCTGGTACAAG
GCAGGCATCCATGCAGGCATTTACCCAGGCCAGGCAACACTCCTACTCCATGGTGGGATATGCACCCTG
GAGGCAACTGGCTAGGTGGTGGGCAGGGCCAGGGTGTGGGCTGCAAGGGGACTGCCACAGGTCCAGC
TCAGCCTCCACTGAACCCCCAGCTGCCACCTACCCATCTGACTTTGCTCCCTTAATCCAGCCCCCTAC
CCAGCTCCCCACCTTTGCAACCAGGGCCCCAGCATGTCTTGCCCAAGATGTCTATAAACCCAAGGCAG
TGGGAAATAGTGGGCAGCTAGAAGGGAGTGGTGGAGCCAAACCCACGGGGTGAAGCACTGGGGGTAG
TGGTGGATATGGGGCAGTGGGGCAGGGCGCTCCTCTGCGACTGCCCTAATTGCCAGGAGCTAGAGCGG
CTGGGAGCAGCAGCGGCTGGGCTGCGGAAGAAGCCCATCCACAGCTGCCACATCCCTGGCTCGGGCAAG
TGTATGGCAAGGCTTCGCACCTGAAGGCCACTTGCCTGGCACACAGGGGAGAGGCCCTTCGCTCTGCAA
CTGGCTCTTCTGCGGCAAGAGGTTCACTCGTTCGGATGAGCTGGAGCGTCATGTGCGCACTCACACCCGG
GAGAAGAAGTTCACCTGCCTGCTCTGCTCCAAGCGCTTTACCCGAAGCGACCACCTGAGCAAACACCAGC
GCACCCATGGAGAACCAGGCCCGGGTCCCCCTCCAGTGGCCCCAAGGAGCTGGGGGAGGGCCGCAGCAC
GGGGGAAGAGGAGGCCAGTCAGACGCCCCGACCTTCTGCCTCGCCAGCAACCCAGAGAAAGCCCTGGA
GGCAGCCCTGAGCAGAGCAACTGCTGGAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >RG230071 representing NM_001173467
 Red=Cloning site Green=Tags(s)

MASLLLEEEVHYGSSPLAMLTAACSKFGGSSPLRDSTTLGKAGTKKPYSVGSDLASAKTMGDAYPAPFTS
 TNGLLSPAGSPPAPTSGYANDYPPFHSFPGPTGTQDPGLLVPKGHSSDCLPSVYTSLDMTHPYGWSYK
 AGIHAGISPGPGNTPTPWDMHPGGNWLGGGQGGDGLQGTLPFGAQPPLNPQLPTYPSPDFAPLNPAPY
 PAPHLLQPGPQHVLPPQDVYKPKAVGNSGQLEGGGAKPPRGASTGGSGGYGGSGAGRSSDCPCNCQELER
 LGAAGAALRKKPIHSCHIPGCGKVYGKASHLKAHLRWHTERPFVCNWLFCGKRFTRSDLELRHVRTHTR
 EKFKFTCLLCSKRFTRSDHLSKHQRTHGEPGPPPSGPKELGEGRSTGEEEEASQTPRPSASPATPEKAPG
 GSPEQSNLLEI

TRTRPLE – GFP Tag – V

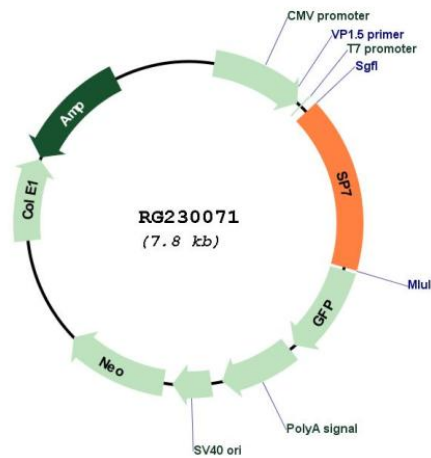
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001173467

ORF Size:	1293 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:	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:	<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_001173467.3
RefSeq Size:	3010 bp
RefSeq ORF:	1296 bp
Locus ID:	121340
UniProt ID:	Q8TDD2
Cytogenetics:	12q13.13
Protein Families:	ES Cell Differentiation/IPS, Transcription Factors
Gene Summary:	<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>