

Product datasheet for **MR226379**

Sp7 (NM_130458) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sp7 (NM_130458) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sp7
Synonyms:	6430578P22Rik; C22; Osx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR226379 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCTCTCTGCTTGGGAAGAAGCTCACTATGGCTCCAGTCCCCTGGCCATGCTGACTGCAGCCT
 GCAGCAAATTTGGCGGCTCTAGCCCTCTGCGGGACTCAACAACCTGGGAAAGGAGGCACAAAGAAGCC
 ATACGCTGACCTTTCAGCCCCAAAACCATGGGGGACGCCTACCCAGCTCCCTTCTCAAGCACAATGGA
 CTCCTCTCTCTCGAGGCAGTCTCCGGCCCCAGCCTCTGGCTATGCAAATGACTACCCACCCTTCCTC
 ACTCATTTCTGGGCCACCGGTGCCAAGACCCTGGGCTCCTAGTGCCTAAGGGGCACAGCTCGTCTGA
 CTGCTGCCTAGTGTCTACACTTCCCTGGATATGACTCATCCCTATGGCTCGTGGTACAAGGCAGGCATC
 CACGCAGGCATCTACCAGTCCAGGCAACACACCTACTCCTTGGTGGGACATGCACCCTGGGGCAACT
 GGCTAGGTGGTGGTCAAGGCCAGGGTATGGGCTGCAAGGGACACTGTCCACAGGCCCTGCCAGCCTCC
 ACTGAACCCCCAGCTGCCTACTTACCCATCTGACTTTGCTCCCCTTAACCCAGCTCCCTACCCAGCGCC
 CACCTCTTGCAACCAGGGCCCCAGCATGTCTACCCCAAGATGTCTATAAGCCCAAGCGGTTGGCAATA
 GTGGGCAACTGGAGGGGAGTGGTGCAGCCAAACCCCTCGGGGTGCTGGCACAGGGGGCAGCGGTGGATA
 TGCGGGCAGTGGGGCAGGGCGTTTACCTGCGACTGCCCAACTGTGAGGAGCTAGAGCGGCTCGGGGCA
 GCAGCGGCTGGGTGAGGAAGAAGCCATTACAGCTGCCACATCCCTGGGTGCGGCAAGGTGTACGGCA
 AGGCTTCGCATCTGAAAGCCACTTGGCTGGCACACTGGCGAGAGGCCCTTTCGCTGCAACTGGCTTTT
 CTGCGGAAGAGGTTCACTCGCTCTGACGAGCTGGAGCGCCACGTGCGCACTCACACCCGGGAGAAGAAG
 TTCACCTGCCTGCTCTGTTCCAAGCGCTTACCAGAAGCGACACTTGAAGCAACATCAGCGCACCCAGC
 GGGAGCCAGGCCGGGACCGCCCCCAAGTGGCCCTAAGGAGCTGGGGGAGGGTGCAGCGCTCGGGGAAGA
 AGAAGCCAATCAGCCGCCCGATCTTCCACTTCGCTGCACCCCAAGAAAAGCCACGGAGGCAGCCCA
 GAGCAGGCAACCTGCTAGAGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226379 protein sequence
 Red=Cloning site Green=Tags(s)

MASSLLEEEAHYGSSPLAMLAACSKFVGSSPLRDSTTLGKGGTKKPYADLSAPKTMGDYAPFSSSTNG
 LLSPAGSPPAPASGYANDYPPFPHSFPPTGAQDPGLLVPKGHSSDCLPSVYTSLDMTHPYGSWYKAGI
 HAGISPGPGNTPPWDMHPGGNWLGGGQGGDGLQGLSTGPAQPPLNPQLPTYPSDFAPLNPAPYPAP
 HLLQPGPQHVLQDVYKPKAVGNNGQLEGSAAKPPRGAGTGGSGGYAGSGAGRSTCDCPNCQELERLGA
 AAAGLRKKPIHSCHIPGCGKVYKASHLKAHLRWHTGERPFVCNWLFCGKRFTRSELERHVRHTREKK
 FTCLLCSKRFTRSDHLSKHQRTHGEPGPGPPSPGPKELGEGRSVGEENQPPRSSTSPAPPEKAHGGSP
 EQSNLLEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_130458

ORF Size: 1287 bp

OTI Disclaimer: 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.

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](#)

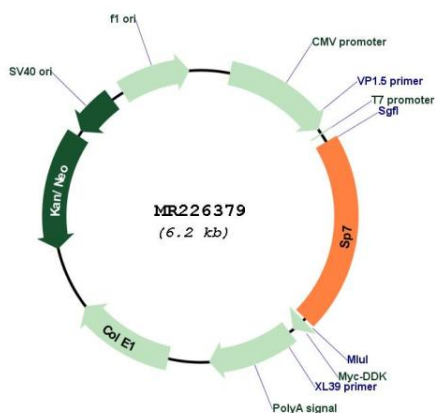
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_130458.4](#)

RefSeq Size:	2284 bp
RefSeq ORF:	1287 bp
Locus ID:	170574
UniProt ID:	Q8VI67
Cytogenetics:	15 F3
MW:	44.7 kDa
Gene Summary:	Transcriptional activator essential for osteoblast differentiation. Binds to SP1 and EKLf consensus sequences and to other G/C-rich sequences.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR226379