

Product datasheet for **RG238072**

SP7 (NM_001300837) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP7 (NM_001300837) 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:	>RG238072 representing NM_001300837. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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GGCCCCAAGGAGCTGGGGAGGGCCGCAGCACGGGGAAGAGGAGGCCAGTCAAGCGCCCGACCTTCT
GCCTCGCCAGCAACCCAGAGAAAGCCCTGGAGGCAGCCTGAGCAGAGCAACTTCTGGGATC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238072
 Blue=ORF Red=Cloning site Green=Tag(s)

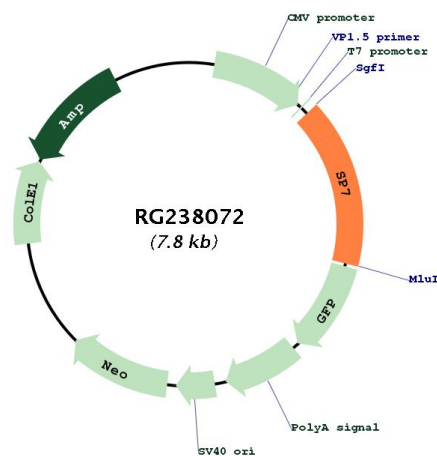
MLTAACSKFVGGSSPLRDSTTLGKAGTKKPYSVGSDDL SASKTMGDAYPAPFTSTNGLLSPAGSPPAPTSG
 YANDYPPFSHSFPGPTGTQDPGLLVKGGHSSDCLPSVYTSLDMTHPYGSWYKAGIHAGISPGGNTPT
 PWWDMHPGGNWLGGGQGGDGLQGTLP TGAQPPLNPQLPTYP SDFAPLNPAPYPAPHLLQPGPQHVLV
 QDVYKPKAVGNSGQLEGGGAKPPRGASTGGSGYGGSGAGRSSDCPCNCQELERL GAAAAGLRKKPIH
 SCHIPGCGKVYKASHLKAHLRWH TGERPFVCNWLF CGKRFTRSD ELERHVRTH TREKKFTCLLCSKRF
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 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

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).
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]