

Product datasheet for **RC231702**

SEM1 (NM_001201451) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SEM1 (NM_001201451) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SEM1
Synonyms: C7orf76; DSS1; ECD; SHFD1; Shfdg1; SHFM1; SHSF1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231702 representing NM_001201451
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTATTGCCAGGACTCCAACATTTGTGCTGTGTTGCTGTACAAGGAGGAAAAGTGGGAAGAAAGCATG
GCATAAAAAGGGGAGGAGACCCAGCATAAGAAGCCAGCTCAGCGGGCCAGAGGACCCTGGATCCATGA
GAGTAAGCATCCGGCCTTTGCAAAGCAACAGATAAACTTGAGATGCCAACTCCAGAGCGACAACAGAG
TTAGCCTGGGTCTGCAGGTCCCTGACTCTTTCCACTGCTCCACTGAGCCCCCACCATCCTTGGTGCAT
GTGAAGATTGTTCTTGCCTGCCTGGCTGCCATTCGGGTGACCTCTACAATCTGGCCCCAGAGAAAGAAC
TTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231702 representing NM_001201451
Red=Cloning site Green=Tags(s)

MYQDSNICAVFAVQGGKVGRKHGIKRGRRPSIRSPAQRARGPWIHESKHPAFKQINLEMPNSRATTE
LAWVCRSLTLSTAPLSPPPSLVHCEDCSCLPGCHSGDLYNLAPAERTC

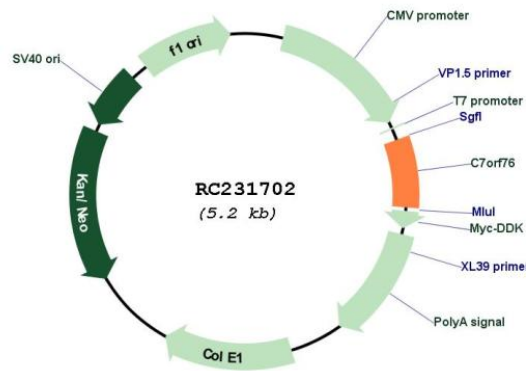
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001201451

ORF Size: 354 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:	<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:	<u>NM_001201451.1</u> , <u>NP_001188380.1</u>
RefSeq Size:	2677 bp
RefSeq ORF:	357 bp
Locus ID:	7979
Cytogenetics:	7q21.3
Protein Pathways:	Homologous recombination, Proteasome
MW:	13.4 kDa
Gene Summary:	The product of this gene has been localized within the split hand/split foot malformation locus SHFM1 at chromosome 7. It has been proposed to be a candidate gene for the autosomal dominant form of the heterogeneous limb developmental disorder split hand/split foot malformation type 1. In addition, it has been shown to directly interact with BRCA2. It also may play a role in the completion of the cell cycle. [provided by RefSeq, Jul 2008]