

## Product datasheet for **RC231737**

### SEM1 (NM\_001201450) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SEM1 (NM\_001201450) 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:** >RC231737 representing NM\_001201450  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTATTGCCAGGACTCCAACATTTGTGCTGTGTTGCTGTACAAGGAGGAAAAGTGGGAAGAAAGCATG  
GCATAAAAAGGGGAGGAGACCCAGCATAAGAAGCCAGCTCAGCGGGCCAGAGGACCCTGGATCCATGA  
GAGTAAGCATCCGGCCTTTGCAAAGCAACAGATAAACTTGAGATGCCCAACTCCAGAGCGACAACAGAG  
TTAGCCTGGGTCTGCAGCTCCACCTCAAGAAAAAGAAGTGGGCAAGGTCCTGACTCTTTCCACTGCTC  
CACTGAGCCCCCACCATCCTTGGTGCAGTGTGAAGATTGTTCTTGCCTGCCTGGCTGCCATTCCGGGTGA  
CCTCTACAATCTGGCCCCAGCAGAAAGAACTTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231737 representing NM\_001201450  
Red=Cloning site Green=Tags(s)

MYCQDSNICAVFAVQGGKVGRKHGIKRGRRPSIRSPAQRARGPWIHESKHPAFKQINLEMPNSRATTE  
LAWVCSSTSRRKKWARSLTLSTAPLSPPPSLVHCEDCSCLPGCHSGDLYNLAPAERTC

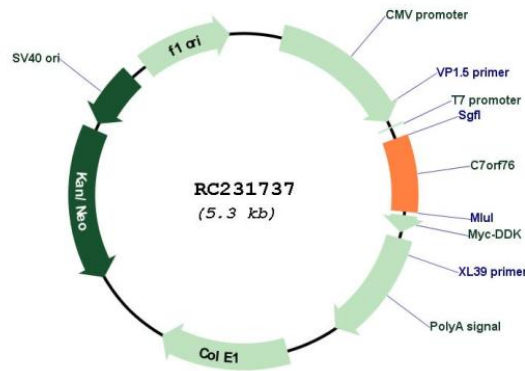
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_001201450

ORF Size: 384 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001201450.1</a></u> , <u><a href="#">NP_001188379.1</a></u>
<b>RefSeq Size:</b>	2707 bp
<b>RefSeq ORF:</b>	387 bp
<b>Locus ID:</b>	7979
<b>Cytogenetics:</b>	7q21.3
<b>Protein Pathways:</b>	Homologous recombination, Proteasome
<b>MW:</b>	14.5 kDa
<b>Gene Summary:</b>	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]