

Product datasheet for **RG231702**

SEM1 (NM_001201451) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SEM1 (NM_001201451) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SEM1
Synonyms: C7orf76; DSS1; ECD; SHFD1; Shfdg1; SHFM1; SHSF1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231702 representing NM_001201451
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATTGCCAGGACTCCAACATTTGTGCTGTGTTTGTGTACAAGGAGGAAAAGTGGAAGAAAGCATG
GCATAAAAGGGGGAGGAGACCCAGCATAAGAAGCCAGCTCAGCGGGCCAGAGGACCCTGGATCCATGA
GAGTAAGCATCCGGCCTTTGCAAAGCAACAGATAAACTTGGAGATGCCAACTCCAGAGCGACAACAGAG
TTAGCCTGGTCTGCAGGTCCCTGACTCTTCCACTGCTCCACTGAGCCCCCACCATCCTTGGTGCCT
GTGAAGATTGTTCTTGCCTGCCTGGCTGCCATTCGGGTGACCTCTACAATCTGGCCCCAGCAGAAAGAAC
TTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231702 representing NM_001201451
Red=Cloning site Green=Tags(s)
MYCQDSNICAVFAVQGGKVGRKHGIKRGRRPSIRSPAQRARGPWIHESKHPAFKQINLEMPNSRATTE
LAWVCRSLTLSTAPLSPPPSLVHCEDCSCLPGCHSGDLYNLAPAERTC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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, NP_001188380.1</u>
RefSeq Size:	2677 bp
RefSeq ORF:	357 bp
Locus ID:	7979
Cytogenetics:	7q21.3
Protein Pathways:	Homologous recombination, Proteasome
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]