

## Product datasheet for **MG217868**

### Smoc1 (NM\_001146217) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smoc1 (NM_001146217) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Smoc1
Synonyms:	2600002F22Rik; AI848508; SRG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217868 representing NM\_001146217  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCCCGCGCGCTCCGTCTGCTCACGCCCACTTGTGCTCGTGTGGTGCAGCTGTCCCGGCCG  
 GCGGCCACCGCACACCAGGCCAGGTTCTAATAAGTGACCGTGACCCTCCGTGCAACCCACACTGTCC  
 CAGGACTCAGCCCAAGCCATCTGCGCCTCTGACGGCAGGTCTACGAGTCCATGTGTGAGTACCAGAGA  
 GCCAAGTGCCGAGACCCAGCCCTGGCCGTGGTCCATCGAGGTCGATGCAAAGATGCTGGCCAGAGCAAGT  
 GTCGCCTGGAGAGGGCTCAGGCCCTGGAACAGGCCAAGAAGCCTCAGGAGGCTGTGTTTGTCCAGAGTG  
 TGGCGAGGATGGTTCCTCACACAGGTGCAGTGCCATACGTACACAGGACTGCTGGTGTGTACCCCA  
 GATGGCAAAGCCATCAGTGGTTCCTCGTGCAGAAATAAACTCCTGTATGTTGAGTCCAGTTACCGACA  
 AGCCCTTGAGCCAGGGAATTCAGGAAGAAAAGTCTCCTTCGTTCTTTTAAACCCTCAATTCAGATGA  
 TGCTCTAAACCCAGCCACGATGGAGACCAACCTGTGTTGATGGAGATGAAATCACAGCCCCACC  
 TTATGGATTAAGCACTTGGTAATCAAAGACTCCAAGTTGAATAACACCAACGTAAGAAATTCAGAGAAAG  
 TCCATTCTGTGACCAGGAAAGACAGAGTGCCCTGGAAGAGGCGCGCAGAAATCCCCGAGAGGGCATTGT  
 GATCCCGAGTGTGCTCCTGGTGGGCTCTATAAGCCGGTGCAATGCCACCAATCCACAGGCTACTGTTGG  
 TGCGTCTAGTAGACACAGGGCGCCATTGCCGGGACTTCCACACGCTATGTGATGCCAAGTTGCGAGA  
 GTGACGCCAGAGCCAAGAGCATAGAGGCCGATGACCCTTCAAGGACAGGGAGTTGCCAGGTTGCTCTGA  
 AGGGAAGAAGATGGAATTTATTACCAGCCTGCTGGATGCCCTCACCACAGACATGGTTCAGGCCATTAAC  
 TCAGCAGCGCCCACTGGAGGTGGGAGTTCTCAGAGCCAGACCCAGCCACACCTGGAGGAGCGAGTGG  
 CACACTGGTACTTCAGCCAGCTGGATAGCAACAGCAGCGATGACATTAACAAGCGGGAGATGAAGCCGTT  
 CAAGCGCTATGTAAGAAGAAAGCCAAGCCCAAGAAATGTGCCCGCGCTTACCAGACTACTGCGACCTG  
 AACAAAGGATAAGGTCATCTCACTGCCTGAGCTGAAGGGCTGCCTGGTGTAGCAAAGAAGTGGTAGCC  
 TTGGCAGCTTCCCTCAGGAAAACGAGCAGGCACAAACCCGTTTCATCGGACGCCTTGTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG217868 representing NM\_001146217  
 Red=Cloning site Green=Tags(s)

MLPARVRLTPHLLLVQLSPAGGHRTTGRFLISDRDPPCNPHCPRTQPKPICASDGRSYESMCEYQR  
 AKCRDPALAVVHRGRCKDAGQSKRLERAQALEQAKKPQEAQVPECGEDGSFTQVQCHTYTYGCWCVTP  
 DGKPISSSVQNKTPVCSGPVTDKPLSQNSGRKVSFRFFLTLNSDDGSKPTPTMETQPVFDGDEITAPT  
 LWIKHLVIKDSLNNNTNVRNSEKVHSCDQERQSALEEARQNPREGIVIPECAPGGLYKPVQCHQSTGYCW  
 CVLVDTRPLPGTSTRYVMPSCESDARAKSIEADDPFKDRELPGCPEGKKMEFITSLLDALTTDMVQAIN  
 SAAPTGGGRFSEPDPSHTLEERVAHWYFSQLDSNSSDDINKREMKPFKRYVKKKAKPKKARRFTDYCDL  
 NKDKVISLPELKGCLGVSKEGSLGSFPQKGRAGTNPFIGRLV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001146217

**ORF Size:** 1389 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:**

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\\_001146217.1](#), [NP\\_001139689.1](#)

**RefSeq Size:** 3496 bp

**RefSeq ORF:** 1392 bp

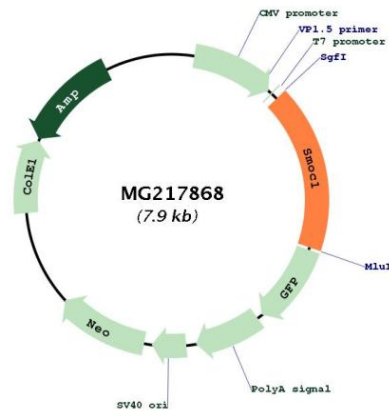
**Locus ID:** 64075

**UniProt ID:** [Q8BLY1](#)

**Cytogenetics:** 12 D1

**Gene Summary:** Probable regulator of osteoblast differentiation. Plays essential roles in both eye and limb development.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG217868