

## Product datasheet for **MG207121**

### Smoc2 (NM\_022315) Mouse Tagged ORF Clone

#### Product data:

|                           |                                          |
|---------------------------|------------------------------------------|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Smoc2 (NM_022315) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                 |
| Symbol:                   | Smoc2                                    |
| Synonyms:                 | 1700056C05Rik; 5430426J21Rik; Smoc2l     |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-AC-GFP (PS100010)                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |



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**ORF Nucleotide Sequence:**

>MG207121 representing NM\_022315  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCCGCCACAGCTGTGCTGGCTGCCGCTGCTCGCTGCCTTGTCTGCCCGGTGCCCGCAGAAGT  
 TCTCAGCGCTCAGTTCCTTGAGAGTCGATCAAGACAAAGACAGAGACTGCAGCCTGGACTGCCCAAGCTC  
 CCCTCAGAAGCCACTCTGTGCCTCGGACGGGAGGACCTTCCTGTCCCGATGTGAGTTCACGCGGGCCAAG  
 TGCAAAGATCCACAGCTGGAGATCGCTCACCGTGGGAATTGCAAAGATGTGTCCAGGTGTGTGGCTGAGA  
 GGAAGTATACCCAGGAGCAGGCCCGGAAGGAGTTCAGCAAGTGTTCATTCCAGAATGCAATGATGACGG  
 CACCTACAGTCAGGTCCAGTGTACAGCTACACAGGATACTGTTGGTGTGTACACCAAATGGAAGACCC  
 ATCAGTGGCACTGCTGTGGCCACAAGACACCCAGGTGCCCGGTTCAATAAATGAAAAGGTGCCGACG  
 GGAAGGAGCAGGAAAGCAGATGATGCTGCAGCCCCAGCATTGGAGACTCAGCCCCAAGGAGATGAAGA  
 AGATATTGCCTCACGCTACCCTACTCTGGACCGAGCAAGTTAAGAGTCGGCAGAACAAGACCAATAAA  
 AATTCAGCATCCTCCTGTGATCAGGAGCATCAGTCAGCTCTTGAGGAAGCCAAGCAGCCCAAGAATGACA  
 ATGTAGTGATCCCGAGTGTGCACATGGTGGTCTCTACAAGCCAGTGCAATGCCATCCATCCACCGGATA  
 CTGCTGGTGTGTGCTAGTGGACTGGACGGCCATTCCCGGGACCTCCACAAGGTATGAGCAACCTAAG  
 TGTGACAAACAGCCGAGCTACCCAGCGAAGGCCCGGGACCTGTACAAGAACAGGCCACTGCAGGGTT  
 GTCCTGGTGCCAAAAGCAGAGTTTCTGACAAGTGTCTGGATGCGCTCTCCACAGACATGGTTCATGC  
 CGTCTCTGACCCCTCTTCTCTTCTGGCAGGCTGTCAGAGCCAGACCCACACCCCTGGAGGAGAGG  
 GTTGTACATTGGTACTTCAAGCTGCTTGATAAGAACTCTAGTGGAGACATTGGCAAGAAGGAGATCAAAC  
 CCTTTAAGAGGTTCTCTGCGAAAGAAATCCAAGCCAAAAGTGTGTGAAGAAGTTTGTGGAGTACTGCGA  
 CATGAACAATGACAAGTCCATCACCGTGCAGGAGCTCATGGGCTGCTTGGGTGTACCAGAGAGGAGGGT  
 AAAGCCAACACAGGAAGCGCCACACCCAGAGGAAATGCTGAAAGTCTTCTCTATAGACAGCCCA  
 GGAACAAGGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207121 representing NM\_022315  
 Red=Cloning site Green=Tags(s)

MLPPQLCWLPLLAALLPPVPAQKFSAL TFLRVDQDKDRDCSLDCPSSPQKPLCASDGRFSLSRCEFQRAK  
 CKDPQLEIAHRGNCKDVSRCVAERKYTQEQRKEFQQVFIPECNDDGTYSQVQCHSYTGYCWCVTPNGRP  
 ISGTAVAHKTPRCPGSINEKVPQREGAGKADDAAPALETQPQGEEDIA SRYPTLWTEQVKSQRQNTNK  
 NSASSCDQEHQSAL EEAQPKNDNVVIPECAHGGLYKPVQCHPSTGYCWCVLVDTGRPIPSTRYEQPK  
 CDNTARAHPAKARDLYKNRPLQGC PGAKKHEFLTSVLDALSTDMVHAVSDPSSSSGRLSEPDPSHTLEER  
 VVHWYFKLLDKNSSGDI GKKEIKPFKRFLRKKSKPKKCVKKFVEYCDMNNDKSITVQELMGCLGVTREEG  
 KANTRKRHTPRGNAESSSSYRQPRKQG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_022315

**ORF Size:** 1338 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\\_022315.1](#), [NP\\_071710.1](#)

**RefSeq Size:** 2774 bp

**RefSeq ORF:** 1344 bp

**Locus ID:** 64074

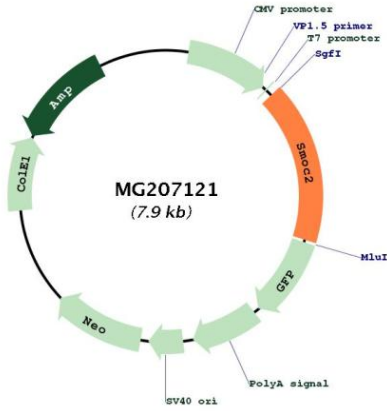
**UniProt ID:** [Q8CD91](#)

**Cytogenetics:** 17 8.95 cM

**Gene Summary:**

Can stimulate endothelial cell proliferation, migration, as well as angiogenesis (By similarity). Promotes matrix assembly and cell adhesiveness.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG207121