

Product datasheet for **MG215047**

Smc01 (NM_183283) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Smc01
Synonyms: 2310010M2ORik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG215047 representing NM_183283
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACCCATGAGACCACAACCCCTGATATCCTTGAAGGAAGCAATGAAAAGAGTAGACAACAAGCTCAGAG
 CTCTAGACACACAGTTCAAAGAAGTGGACGTCACCAAGGATAATCTGACGCTTCGATTTGAACACCATAG
 CAAGACTTTGGCAAGCCAAGCAGCCAGGATGAGATATGGACAGCAGCTCTGGCCCTTGGGTTACACCTCA
 ATGGAAGTGAATATTGTATACAGCTATGTCATCGAGGTCCTTATTTGCTTGCACACTCGAATGCTTCAGA
 AACTCCCAGACCTGGTGAGAAGTCTCCCGACCTTAGCCTCTGCCTTAGAAGAAAAGCCAAGAACAAGCA
 TGTTAGGCTTGTGTGGGAGTCTGTCCTGCAGGAGTACGGGCTGCAGGAGAGGGATGTCTCAGCACTCTGT
 ACCTTCTTATTGTACATGGCAACAAGGAGAGCACTATGCTGCCAACGTAAGACGGATGTACATCAAAG
 ATGTTTCCTTCATGATCACCAACATGGTAAAGAACCAGGCTCTACAGGATGGATTGCTTAGAGCTGTTC
 GATCATCGAGAAGGGGAAACAAGCACAGGACCCCTGAAAACCAAGGGCACCCCTAAAAGAGTTGATGCC
 CCGATTAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215047 representing NM_183283
 Red=Cloning site Green=Tags(s)

MTHETTLISLKEAMKRVDNKLRALDQFKELDVTKDNLTRFEHHSKTLASQAAQDEIWTAAALALGFTS
 MELNIVYSYVIEVLIICLHTRMLQKLPDLVRSPLTASVLRRAKKNKHVRLVWESVLQEYGLQERDVSALC
 TFFIVHGNKGEHYAANVRRMYIKDVSFMITNMVKNQALQDGLLRVQIIEKKGQAQDPENSRAPLKELMP
 PVKD

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_183283

ORF Size: 642 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:

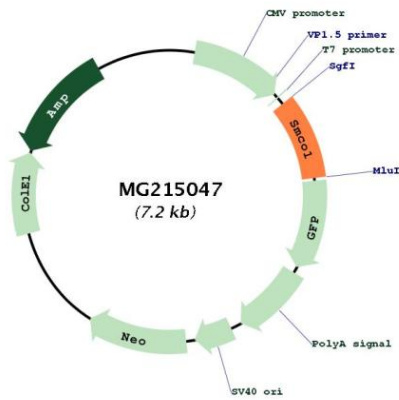
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_183283.3](#)

RefSeq Size: 1267 bp
 RefSeq ORF: 645 bp
 Locus ID: 69576
 UniProt ID: Q8CEZ1
 Cytogenetics: 16 B3

Product images:



Circular map for MG215047