

## Product datasheet for RC212709

### SMR3A (NM\_012390) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SMR3A (NM\_012390) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** SMR3A  
**Synonyms:** P-B1; PBI; PRL5; PROL5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC212709 representing NM\_012390  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAATCACTGACTTGGATCTTGGCCTTTGGGCTCTTGACGCGTGTTCACACCTGGTGAGAGTCAA  
GAGGCCAGGGACCATATCCACCTGGACCACTGGCTCCTCCTCCACCATGTTTTCTTTGGAAC  
AGGATTTGTTCCACCACCCATCCTCCACCCTATGGTCCAGGGAGATTTCCACCACCCCTTTCTCCACCC  
TATGGTCCAGGGAGAATCCACCATCCCCTCCTCCACCCTATGGTCCAGGGAGAATCAATCACACTCTC  
TTCCTCCTCCTTATGGCCAGGTTATCCACAGCCACCTTCCCAACCAAGACCCTATCCACCTGGACCTCC  
ATTTTTCCCTGAAATCTCCAACCTGATCCTGCCCTCCCTACTCCTGCACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC212709 representing NM\_012390  
 Red=Cloning site Green=Tags(s)  
 MKSLTWILGLWALAACFTPGESQRGPRGPYPGPLAPPPPPCFPFGTGFVPPHPPPYGPRFPPLSPP  
YGPRIPPSPPPYGPRIQSHSLPPYGPYPQPPSQPRYPGPPFFPVNSPTDPAALTPAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6098\\_e02.zip](https://cdn.origene.com/chromatograms/mk6098_e02.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_012390

**ORF Size:** 402 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\\_012390.4](#)

**RefSeq Size:** 598 bp

**RefSeq ORF:** 405 bp

**Locus ID:** 26952

**UniProt ID:** [Q99954](#)

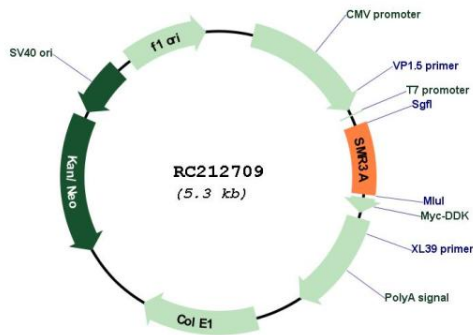
Cytogenetics: 4q13.3

Protein Families: Secreted Protein

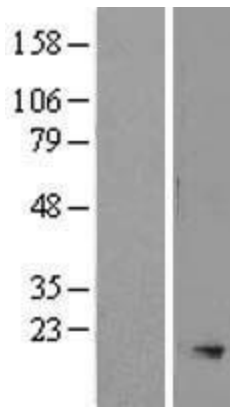
MW: 14.05 kDa

Gene Summary: May play a role in protection or detoxification.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC212709



Western blot validation of overexpression lysate (Cat# [LY415795]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212709 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).