

Product datasheet for **MR207013**

Smap1 (NM_028534) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smap1 (NM_028534) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smap1
Synonyms:	1700056O10Rik; 4921514B13Rik; 4921525H11Rik; AI462175
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207013 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGACACGCTCCTGTCTGGGAGAAGGCTCAGAAGCTGAACGAGCAGCACCAGCTCATCTGTCCAAAC
 TGCTGAGGGAGGAGGACAACAAGTACTGCGCCGACTGCGAGGCCAAAGGTCCCGATGGGCTTCCTGGAA
 TATTGGTGTGTTTATTTGCATCAGATGTCTGGAATTCATAGAAATCTTGGGGTTCATATATCCAGAGTC
 AAGTCAGTCAACCTAGACCAATGGACACCAAGACAGATACAGTGCATGCAAGATATGGGAAATACTAAAG
 CAAGACTACTTTATGAAGCCAATCTTCCAGAGAACTTTGAAAGACCACAGACAGATCAAGCAGTAGAGTT
 TTTTCATCAGAGATAAATATGAAAAGAAGAAATACTATGATAAAAAATGCAATAGCTATCACAAATAAAGAA
 AAGGAAAAAAAAAAGGACGAGAAAAAGAGAAAAAGGAGCCAGAAAAGCCTGCAAAACCTAACAACGG
 AAAAGCTGCCGAAAGAAAGAGCAACAACCTTGAGCCTAAGAAAAGCACCAGCCAAAAAATGCTGCAGA
 GCCCACTATTGATCTTCTAGGACTTGATGGTCTGCTGAGGCACCCGTGACCAATGGAAACCCAGCCACA
 GCGCCAGCCCTGAGTGATGATCTGGACATTTTTGGACCAATGATTTCTAACCCCTTACCTGCAGCTGTCA
 TGCCCCGGCTCAGGGGACTGCCTCCGTACCAGCACCTGTACCCTGTCTACCGTTACATCTGGGGACCT
 GGATCTGTTTACTGAGCAAACTACAAGTCAAGAAAGTACGAAAGAAACAACCTCTCAAAGACTCCATC
 TTATCTCTGTATGGTACAGGAGCACAGCAAAGCACTCCTGGTGTGTTTATGGGACCCACAAATAACCAT
 TTACCTCACAAAGCACCAGCTGCATTTCAAGTTTTCTTCCATGGGCGTCCCAGTGCCTGCAGCTCCCGG
 TCTTATAGGAAATATGATGGGACAGAATACTGGCATGATGGTGGGCATGCCATGCACAAATGGGTTCATG
 GAAACGCACAGACTGGAGTGATGCCACTTCTCAGAATGTTGTTGGCCCTCAGGGAGGAATGGTGGGAC
 AAATGGGTGCACCACAGAGTAAGTTCGGCTTGCCACAAGCCAGCAGCCTCAGTGAACCTCTCACAGAT
 GAATCAGCAGATGGCTGCCATGAACCTCAGTAGTGTCTAACGCTAGTGCAGGTTTTGGCCAGCCTCCACAG
 ACGACAGCAGGGTGGTCTGGAAGCTCATCGGGCAGACGCTGAGCACACAGCTGTGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207013 protein sequence
 Red=Cloning site Green=Tags(s)

MATRSCREKAQKLNEQHQLILSKLLREEDNKYCADCEAKGPRWASWNIGVVICIRCAGIHRNLGVHISR
 KSVNLDQWTPAQIQCMQDMGNTKARLLYEANLPENFRPQTDQAVEFFIRDKYEKKKYYDKNAIAITNKE
 KEKKKDEKKREKEPEKPAKPLTTEKLPKKEEQLEPKKSTSPKNAAEPTIDLLGLDGPAAEAPVTNGNPAT
 APALSDDLDFGPMISNPLPAAVMPPAQGTASVPAPATLSTVTSGLDLDFTEQTTKSEEVAKKQLSKDSI
 LSLYGTGAQQSTPGVFMGPTNIPFTSQAPTAQGFPSMGVVPVPAAPGLIGNMMGQNTGMMVGMPMHNGFM
 GNAQTGMPLPQNIVVGPQGGMVGQMGAPQSKFGLPQAQQPQWNLSQMNQQMAAMNLSANASAGFGQPPS
 TTAGWSGSSSQTLSTQLWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_028534

ORF Size: 1323 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_028534.3](#), [NP_082810.1](#)
RefSeq Size: 2367 bp

RefSeq ORF: 1323 bp

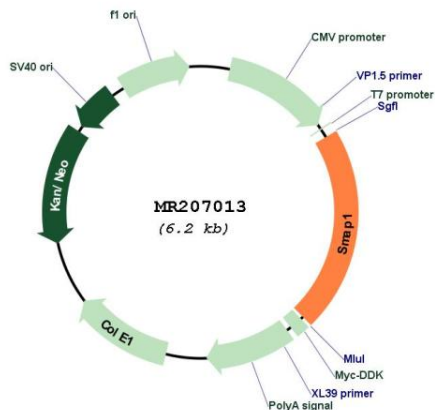
Locus ID: 98366

UniProt ID: [Q91VZ6](#)
Cytogenetics: 1 A5

MW: 47.7 kDa

Gene Summary: GTPase activating protein that acts on ARF6. Plays a role in clathrin-dependent endocytosis. May play a role in erythropoiesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207013