

## Product datasheet for **RC238340**

### SMAP1 (NM\_001281440) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMAP1 (NM_001281440) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SMAP1
Synonyms:	SMAP-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238340 representing NM\_001281440  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCCTACCTGCCTGCCACCTGACAGCTTTTGTACAAGGCTTTTATCTCTGCTTCTGAAAAAGA  
 GTATGGTGGTCTTTTTCGGTCCTCGATGGCTTCTGGAATATTGGTGTGTTTATTTCATCAGATGTGC  
 TGGAAATCATAGAAATCTTGGGGTTCATATATCCAGGGTCAAATCAGTCAACCTAGACCAATGGACAGCA  
 GAACAGATACAGTGCATGCAAGATATGGGAAATACTAAAGCAAGACTACTCTATGAAGCCAATCTCCAG  
 AGAACTTTCGAAGACCACAGACAGATCAAGCAGTGGAAATTTTCATCAGAGATAAATATGAAAAGAAGAA  
 ATACTACGATAAAAAATGCCATAGCTATTACAAATATTTCTCTCTGATGCTCTCTTTCAGCCTTTGGTA  
 TCCTCTCTTCTCTGCAAGCTGCTGTTGACAAAAATAAATTGGAGAAAAGAAAAGGAAAAAAAAAGGAAG  
 AGAAAAAGAGAGAAAAGGAGCCAGAAAAGCCGCAAAACCACTTACAGCTGAAAAGCTGCAGAAGAAAGA  
 TCAGCAACTGGAGCCTAAAAAAGTACCAGCCCTAAAAAAGCTGCGGAGCCCACTGTGGATCTTTTAGGA  
 CTTGATGGCCCTGCTGTGGCACCAGTGACCAACGGGAACACAACGGTGCCACCCCTGAACGATGATCTGG  
 ACATCTTTGGACCGATGATTTCTAATCCCTTACCTGCAACTGTCATGCCCCAGCTCAGGGGACACCCCTC  
 TGCACCAGCAGCTGCAACCCTGTCTACAGTAACATCTGGGGATCTAGATTTTACTGAGCAAACCTACA  
 AAATCAGAAGAAGTGGCAAAGAAACAACCTTCCAAAGACTCCATCTTATCTCTGTATGGCACAGGAACCA  
 TTCAACAGCAAAGTACTCTGGTGTATTTATGGGACCCACAAATATACCATTTACCTCACAAGCACCAGC  
 TGCATTTACAGGGCTTCCATCGATGGCGTGCCTGTGCCTGCAGCTCCTGGCCTTATAGGAAATGTATG  
 GGACAGAGTCCAAGCATGATGGTGGCATGCCCATGCCAATGGGTTTATGGGAAATGCACAAACTGGTG  
 TGATGCCACTTCTCAGAACGTTGTTGGCCCCAAGGAGGAATGGTGGGACAAATGGGTGCACCCAGAG  
 TAAGTTTGGCCTGCCGCAAGCTCAGCAGCCCCAGTGGAGCCTCTCACAGATGAATCAGCAGATGGCTGGC  
 ATGAGTATCAGTAGTGCAACCCCTACTGCAAGTTTTGGCCAGCCCTCCAGCACAACAGCAGGATGGTCTG  
 GAAGCTCATCAGGTCAGACTCTCAGCACAACTGTGGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238340 representing NM\_001281440  
 Red=Cloning site Green=Tags(s)

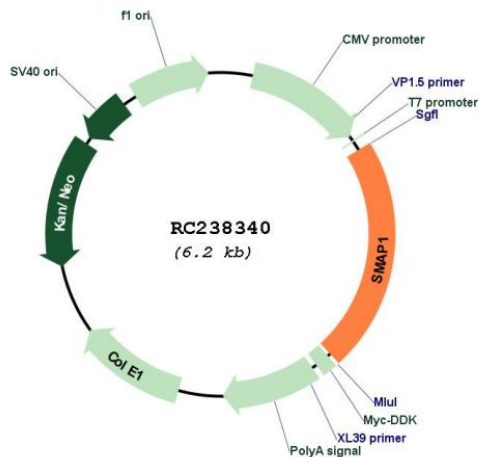
MEPYLPAHLTAFVQGFYLCFLKKSMMVFFGPRWASWNIGVFICIRCAGIHRNLGVHISRVKSVNLDQWTA  
 EQIQCMQDMGNTKARLLYEANLPENFRPQTDQAVEFFIRDKYEKKKYYDKNAIAITNISSSDAPLQPLV  
 SSPSLQAAVDNKLEKEKEKKEKREKEPEKPAKPLTAEKQLKQDQQLLEPKKSTSPKAAEPTVDLLG  
 LDGPAVAVPTNGNTTVPPLNDDLDFGPMISNPLPATVMPPAQGTPSAPAAATLSTVTSGLDLDFTEQTT  
 KSEEVAKKQLSKDSILSLYGTGTIQQSTPGVFMGPTNIPFTSQAPAAFQGFPSMGVVPVPAAPGLIGNVM  
 GQSPSMMVGMPPNGFMGNAQTGVMLPQNIVVGPQGGMVGQMGAPQSKFGLPQAQQPQWSLSQMNQMQMAG  
 MSISSATPTAGFGQPSSTTAGWSGSSSQTLSTQLWK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001281440

**ORF Size:** 1371 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\\_001281440.1](#), [NP\\_001268369.1](#)

**RefSeq Size:** 3165 bp

**RefSeq ORF:** 1374 bp

**Locus ID:** 60682

**UniProt ID:** [Q8IYB5](#)

**Cytogenetics:** 6q13

**Protein Pathways:** Endocytosis

**MW:** 49.7 kDa

**Gene Summary:** The protein encoded by this gene is similar to the mouse stromal membrane-associated protein-1. This similarity suggests that this human gene product is also a type II membrane glycoprotein involved in the erythropoietic stimulatory activity of stromal cells. Alternate splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]