

Product datasheet for **SC310388**

SMAP1 (NM_021940) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMAP1 (NM_021940) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMAP1
Synonyms:	SMAP-1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_021940, the custom clone sequence may differ by one or more nucleotides ATGGCGACGCGCTCCTGTGCGGGAGAAGGCTCAGAAGCTGAACGAGCAGCACCAGCTCATC CTATCCAAGCTTCTGAGGGAGGAGGACAACAAGTACTGCGCCGACTGCGAGGCCAAAGGT CCTCGATGGGCTTCTGGAATATTGGTGTGTTTATTTGCATCAGATGTGCTGGAATTCAT AGAAATCTTGGGTTTCATATATCCAGGGTCAAATCAGTCAACCTAGACCAATGGACAGCA GAACAGATACAGTGCATGCAAGATATGGGAAATACTAAAGCAAGACTACTCTATGAAGCC AATCTTCCAGAGAACTTTGGAAGACCACAGACAGATCAAGCAGTGAATTTTTTCATCAGA GATAAATATGAAAAGAAGAAATACTACGATAAAAAATGCCATAGCTATTACAAATAAAGAA AAGGAAAAAAAAAAGGAAGAGAAAAAGAGAAAAAGGAGCCAGAAAAGCCGGCAAAACCA CTTACAGCTGAAAAGCTGCAAGAAGAAATCAGCAACTGGAGCCTAAAAAAGTACCAGC CCTAAAAAAGCTGCGGAGCCCACTGTGGATCTTTTAGGACTTGATGGCCCTGCTGTGGCA CCAGTGACCAACGGGAACACAACGGTGCCACCCCTGAACGATGATCTGGACATCTTTGGA CCGATGATTTCTAATCCCTTACCTGCAACTGTCATGCCCCAGCTCAGGGGACACCCTCT GCACCAGCAGTGCAACCCTGTCTACAGTAACATCTGGGGATCTAGATTTATTCAGT CAAACACAAAATCAGAAGAAGTGGCAAAGAAACAACCTTTCCAAGACTCCATCTTATCT CTGTATGGCACAGGAACCATTCACAGCAAAGTACTCCTGGTGTATTTATGGGACCCACA AATATAACATTTACCTCAAGCACCAGCTGCATTTAGGGCTTTCCATCGATGGGCGTG CCTGTGCCTGCAGCTCCTGGCCTTATAGGAAATGTGATGGGACAGAGTCCAAGCATGATG GTGGGCATGCCCATGCCAATGGGTTTATGGGAAATGCACAACTGGTGTGATGCCACTT CCTCAGAACGTTGTTGGCCCCAAGGAGGAATGGTGGGACAAAATGGGTGCACCCAGAGT AAGTTTGGCCTGCCGCAAGCTCAGCAGCCCCAGTGGAGCCTCTCACAGATGAATCAGCAG ATGGCTGGCATGAGTATCAGTAGTGAACCCCTACTGCAGTTTTGGCCAGCCCTCCAGC ACAACAGCAGGATGGTCTGGAAGCTCATCAGGTCAGACTCTCAGCACAACTGTGGAAA TGA
Restriction Sites:	Please inquire
ACCN:	NM_021940



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_021940.2](#), [NP_068759.2](#)

RefSeq Size: 3194 bp

RefSeq ORF: 1323 bp

Locus ID: 60682

UniProt ID: [Q8IYB5](#)

Cytogenetics: 6q13

Domains: ArfGap

Protein Pathways: Endocytosis

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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform B), compared to isoform A.