

## Product datasheet for **RG238225**

### SMAP1 (NM\_001281439) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMAP1 (NM_001281439) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMAP1
Synonyms:	SMAP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238225 representing NM_001281439. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGACGCGCTCCTGTCGGGAGAAGGCTCAGAAGCTGAACGAGCAGCACCAGCTCATCCTATCCAAG
CTTCTGAGGGAGGAGGACAACAAGTACTGCGCCGACTGCGAGGCCAAAGGTCCTCGATGGGCTTCTCTGG
AATATTGGTGTGTTTATTTGCATCAGATGTGCTGGAATTCATAGAAATCTTGGGGTTCATATATCCAGG
GTCAAATCAGTCAACCTAGACCAATGGACAGCAGAACAGATACAGTGCATGCAAGATATGGGAAACT
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AAAGAAAAGGAAAAAAAAAAGGAAGAGAAAAAGAGAAAAAGGAGCCAGAAAAGCCGGCAAACCACTT
ACAGCTGAAAAGCTGCAGAAGAAAGATCAGCAACTGGAGCCTAAAAAAGTACCAGCCCTAAAAAAGCT
GCGGAGCCCACTGTGGATCTTTTAGGACTTGATGGCCCTGCTGTGGCACCAGTGACCAACGGGAACACA
ACGGTGCCACCCCTGAACGATGATCTGGACATCTTTGGACCGATGATTTCTAATCCCTTACCTGCAACT
GTCATGCCCCAGCTCAGGGGACACCCTCTGCACCAGCAGCTGCAACCCTGTCTACAGTAACATCTGGG
GATCTAGATTTATCACTGAGCAAACACAAAAACAGAAGAAGTGGCAAAGAAACAACCTTCCAAAGAC
TCCATCTTATCTGTATGGCACAGGAACCATTAACAGCAAAGTACTCCTGGTGTATTTATGGGACCC
ACAAATATACCATTACCTCACAAGCACCAGCTGCATTTCCAGGGCTTCCATCGATGGGCGTGCCTGTG
CCTGCAGCTCCTGGCCTTATAGGAAATGTGATGGGACAGAGTCCAAGCATGATGGTGGGCATGCCCATG
CCCAATGGGTTTATGGGAAATGCACAAACTGGTGTGATGCCACTTCTCAGAACGTTGTTGGCCCCCAA
GGAGGAATGGTGGGACAAATGGGTGCACCCAGAGTAAGTTTGGCCTGCCGAAGCTCAGCAGCCCCAG
TGGAGCCTCTCACAGATAATGCAGAAGGTGATGCTGTTCTCCAGCACTCCATCAGTGAATCTACTGG
CCAATGACAAGGTGGTTAAAATGTCTTTAGTAGATGAATCAGCAGATGGCTGGCATGAGTATCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG238225  
Blue=ORF Red=Cloning site Green=Tag(s)

MATRSCREKAQKLNEQHQLILSKLLREEDNKYCADCEAKGPRWASWNIGVFCIRCAGIHRNLGVHISR  
 VKSVNLDQWTAEQIQCMQDMGNTKARLLYEANLPENFRPQTDQAVEFFIRDKYEKKKYDKNAIATN  
 KEKEKKKEKKREKEPEKPAKPLTAEKLQKKDQLEPKKSTSPKAAEPTVDLLGLDGPVAVPTNGNT  
 TVPPLNDDLDIFGPMISNPLPATVMPPAQGTPSAPAAATLSTVTSGDLDFTEQTKSEEVAKKQLSKD  
 SILSLYGTGTIQQQSTPGVFMGPTNIPFTSQAPAAFQGFPSMGVVPVPAAPGLIGNVMGQSPSMMVGMPM  
 PNGFMGNAQTGMVPLPQNVVGPQGGMVGQMGAPQSKFGLPQAQQPQWSLSQIMQKGDVAVLQHSISAIYW  
 PMTRWLKCPLVDESADGWHEYQ  
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001281439

**ORF Size:** 1308 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).

**RefSeq:** [NM\\_001281439.2](#)

RefSeq Size: 3356 bp

RefSeq ORF: 1311 bp

Locus ID: 60682

UniProt ID: [Q8IYB5](#)

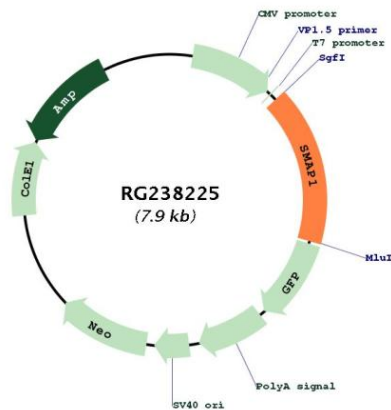
Cytogenetics: 6q13

Protein Pathways: Endocytosis

MW: 48.3 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]

**Product images:**



Circular map for RG238225