

## Product datasheet for **RG231224**

### SMAP2 (NM\_001198979) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SMAP2 (NM\_001198979) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SMAP2  
**Synonyms:** SMAP1L  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231224 representing NM\_001198979  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGAAAGTGGGCAGAGCAAGATTTGCACAAAAAGATGTTTTGCAAATAGAGGAAATAGGCCCTGTAA  
 AGCTATTTGTGAGAGACTGGCCGCGATGGGCTCTTGAACATTGGTGTGTTTCATCTGCATTGATGTGC  
 TGGAAATCCACAGGAATCTGGGGTGCACATATCCAGGGTAAAGTCAGTTAACCTCGACCAGTGGACTCAA  
 GAACAGATTCAAGATGCAAGAGATGGGAAATGGAAAGGCAAACCGACTTTATGAAGCCTATCTTCTCTG  
 AGACCTTCGGCGACCTCAGATAGACCCAGCTGTTGAAGGATTTATTCGAGACAAATATGAGAAGAAGAA  
 ATACATGGACCGAAGTCTGGACATCAATGCCTTTAGGAAAGAAAAAGATGACAAGTGGAAAAAGGGGAGC  
 GAACAGTTCCAGAAAAAATTGGAACCTGTTGTTTTGAGAAGGTGAAAATGCCACAGAAAAAAGAAAG  
 ACCCACAGCTACCTCGAAAAAGCTCCCCGAAATCCACAGCGCCTGTCATGGATTTGTTGGCCCTGTATGC  
 TCCTGTGGCCTGCTCCATTGCAAATAGTAAGACCAGCAATACCCTAGAGAAGGATTTAGATCTGTTGGCC  
 TCTGTTCCATCCCCTTCTTCCGGTTCAGAAAGGTTGTAGGTTCCATGCCAACTGCAGGGAGTGCCG  
 GCTCTGTTCTGAAAATCTGAACCTGTTTCCGGAGCCAGGGAGCAAAATCAGAAGAAATAGGCAAGAAACA  
 GCTCTCTAAAGACTCCATTCTTTCACTGTATGGATCCCAGACGCCTCAAATGCCTACTCAAGCAATGTTT  
 ATGGCTCCGCTCAGATGGCATATCCCACAGCCTACCCAGCTTCCCGGGGTTACACCTCCTAACAGCA  
 TAATGGGGAGCATGATGCCTCCACCAGTAGGCATGGTTGCTCAGCCAGGAGCTTCTGGGATGGTTGCCCC  
 CATGGCCATGCCTGCAGGCTATATGGGTGGCATGCAGGCATCAATGATGGGTGTGCCGAATGGAATGATG  
 ACCACCCAGCAGGCTGGCTACATGGCAGGCATGGCAGCTATGCCCCAGACTGTGTATGGGGTCCAGCCAG  
 CTCAGCAGCTGCAATGGAACCTTACTCAGATGACCCAGCAGATGGCTGGGATGAACCTTCTATGGAGCCAA  
 TGGCATGATGAATATGGACAGTCAATGAGTGGCGGAAATGGACAGGCAGCAATCAGACTCTCAGTCTC  
 CAGATGTGAAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG231224 representing NM\_001198979  
Red=Cloning site Green=Tags(s)

MGKVGRARFAQKDLQIEEIGPVKLFVRDWRWASWNIGVVICIRCAGIHRNLGVHISRKSVNLDQWTQ  
 EQIQCMQEMGNKANRLYEAYLPETFRRPQIDPAVEGFIRDKYEKKKYMDRSLDINAFRKEKDDKWKGRGS  
 EPVPEKKLEPVVFEKVKMPQKKEDPQLPRKSSPKSTAPVMDLLGLDAPVACSIANSKTSNTLEKDLLLA  
 SVPSPSSSGSRKVVGSMPTAGSAGSVPENLNLFPPEPGSKSEEIGKKQLSKDSILSLYGSQTPQMPTQAMF  
 MAPAQMAYPTAYPSFPGVTTPNSIMGSMPPPPVGMVAQPGASGMVAPMAMPAGYMGGMQASMMGVPNGMM  
 TTQQAGYMAGMAAMPQTVYGVQPAQQLQWNLQMTQMQMAGMNFYGANGMMNYGQSMSSGGNGQAANQTLSP  
 QMWK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001198979

**ORF Size:** 1272 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\\_001198979.1](#), [NP\\_001185908.1](#)

**RefSeq Size:** 2588 bp

**RefSeq ORF:** 1275 bp

**Locus ID:** 64744

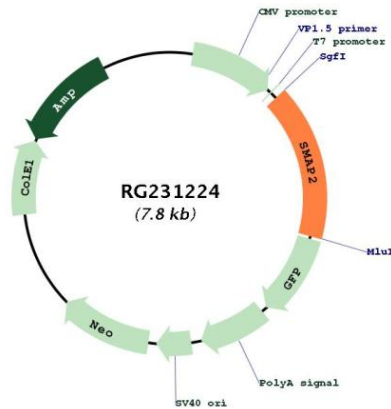
**UniProt ID:** [Q8WU79](#)

**Cytogenetics:** 1p34.2

**Protein Pathways:** Endocytosis

**Gene Summary:** GTPase activating protein that acts on ARF1. Can also activate ARF6 (in vitro). May play a role in clathrin-dependent retrograde transport from early endosomes to the trans-Golgi network (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG231224