

Product datasheet for **RG230811**

SMAP2 (NM_001198980) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMAP2 (NM_001198980) 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:	>RG230811 representing NM_001198980 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAGGCAAGTCGGTGAAGGACGTGGATCGGTACCAGGCTGTCTGGCCAACCTGCTGCTGGAGGAGG
ATAACAAGTTTTGTGCAGATTGCCAGTCTAAAGGGCCGCGATGGGCTCTTGAACATTGGTGTGTTTCAT
CTGCATTCGATGTGCTGGAATCCACAGGAATCTGGGGTGCACATATCCAGGGTAAAGTCAGTTAACCTC
GACCGTGGACTCAAGAACAGATTCAGTGCATGCAAGAGATGGGAAATGAAAAGGCAAACCGACTTTATG
AAGCCTATCTTCTGAGACCTTTTCGGCGACCTCAGATAGACCCAGCTGTTGAAGGATTTATTCGAGACAA
ATATGAGAAGAAGAAATACATGGACCGAAGTCTGGACATCAATGCCTTTAGGAAAAGAAAAGATGACAAG
TGGAAAAGAGGGAGCGAACCAGTTCAGAAAAAATTGGAACCTGTTGTTTTGAGAAGGTGAAAATGC
CACAGAAAAAGAAGACCCACAGCTACCTCGGAAAAGCTCCCCGAAATCCACAGCGCCTGTCATGGATTT
GTTGGGCTTGATGCTCCTGTGGCCTGCTCCATTGCAAAATAGTAAGACCAGCAATACCCTAGAGAAGGAT
TTAGATCTGTTGGCCTCTGTTCCATCCCCTTCTTCCGGTTCAGAAAAGGTTGTAGGTTCCATGCCAA
CTGCAGGGAGTGCCGGCTCTGTTCTGAAAATCTGAACCTGTTTCCGGAGCCAGGAGCAAAATCAGAAGA
AATAGGCAAGAAACAGCTCTCTAAAGACTCCATTCTTTCACTGTATGGATCCCAGACGCCTCAAATGCCT
ACTCAAGCAATGTTTCATGGCTCCCGCTCAGATGGCATATCCACAGCCTACCCAGCTTCCCCGGGTTA
CACCTCCTAACAGCATAATGGGGAGCATGATGCCTCCACAGTAGGCATGGTTGCTCAGCCAGGAGCTTC
TGGGATGGTTGCCCCATGGCCATGCCTGCAGGCTATATGGGTGGCATGCAGGCATCAATGATGGGTGTG
CCGAATGGAATGATGACCACCCAGCAGGCTGGCTACATGGCAGGCATGGCAGCTATGCCCCAGACTGTGT
ATGGGGTCCAGCCAGCTCAGCAGCTGCAATGGAACCTTACTCAGATGACCCAGCAGATGGCTGGGATGAA
CTTCTATGGAGCCAATGGCATGATGAATATGGACAGTCAATGAGTGGCGGAAATGGACAGGCAGCAAAAT
CAGACTCTCAGTCTCAGATGTGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230811 representing NM_001198980
 Red=Cloning site Green=Tags(s)

MTGKSVKDVDRYQAVLANLLLEEDNKFCADCQSKGPRWASWNIGVVICIRCAGIHRNLGVHISRKSVNL
 DQWTQEIQCMQEMGNGKANRLYEAYLPETFRPQIDPAVEGFIRDKYEKKKYMDRSLDINAFRKEKDDK
 WKRGSEPVPEKKLEPVVFEKVKMPQKKEDPQLPRKSSPKSTAPVMDLLGLDAPVACSIANSKTSNTLEKD
 LDLLASVPSPSSSGSRKVVGSMPTAGSAGSVPENLNLFPPEGSKSEEIGKKQLSKDSILSLYGSQTPQMP
 TQAMFMAPAQMAYPTAYPSFPGVTPPNSIMGSMMPPVGMVAQPGASGMVAPMAMPAGYMGGMQASMMGV
 PNGMMTTQQAGYMAGMAAMPQTVYGVQPAQQLQWNLTQMTQQMAGMNFYGANGMMNYGQSMSGGNGQAAN
 QTLSPQMWK

TRTRPLE - GFP Tag - V

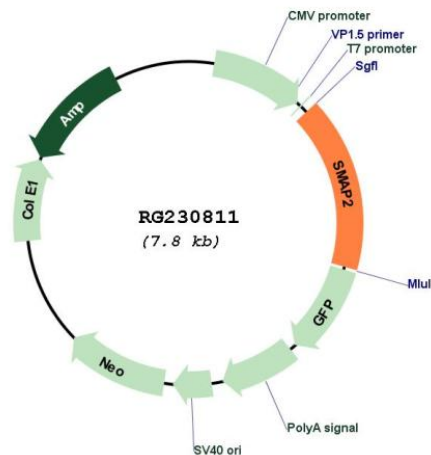
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001198980

ORF Size:	1290 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:	<ol style="list-style-type: none">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_001198980.1 , NP_001185909.1
RefSeq Size:	2519 bp
RefSeq ORF:	1050 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]