

## Product datasheet for **MR206829**

### Smap2 (NM\_133716) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smap2 (NM_133716) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smap2
Synonyms:	1810031K02Rik; AA408614; Smap1l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR206829 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACAGGCAAGTCGGTGAAGGACGTGGATCGGTACCAGGCGGTCTGGCCAACCTGCTGCTGGAGGAAG  
 ATAACAAGTTCTGTGCTGACTGCCAGTCCAAGGGCCGAGATGGGCTCCTGGAACATCGGGGTGTCAT  
 CTGCATTCGGTGTGCTGGGATCCACAGGAATTTGGGGTGCATATATCCAGGGTAAAATCAGTGAACCTC  
 GACCAGTGGACTCAAGAACAGATTCAAGTGCATGCAAGAGATGGGAATGGAAAAGCAAACCGACTCTATG  
 AAGCTACCTTCCGAGACCTTTCGCGACCTCAGATAGACCCAGCTGTTGAAGGATTTATTCGAGATAA  
 ATATGAGAAGAAGAAATATATGGACCGAAGTCTGGACATCAATGTCCTTAGGAAAGAGAAGGATGATAAG  
 TGGAAACGAGGAATGAACCCGCTCCGGAGAAAAAGATGGAACCTGTTGTTTTGAGAAAGTAAAAATGC  
 CACAGAAAAAAGAAGACGCACAGCTACCTCGGAAAAGCTCTCCGAAATCTGCAGCCCTGTCATGGACTT  
 GTTGGGCTTGATGCTCCTGTGGCTGCTCAATTGCAAACAGTAAGACCAGCAATGCCCTAGAAAAGGAT  
 CTAGATCTTTTGGCTCTGTTCCGTCCTTCTCAGTTTCCAGAAAGGCTGTAGGTTCCATGCCAACTG  
 CAGGGAGTGTGGTTCTGTCCCTGAAAACCTGAACCTATTTCCAGAGCCAGGGAGCAAATCAGAAGAAAC  
 AGGCAAGAAACAGCTCTCCAAGGACTCCATCCTATCACTGTATGGATCCCAGACGCCCTCAAATGCCTGCC  
 CAAGCAATGTTTCATGGCTCCTGCTCAGATGGCATAACCCACAGCTTACCCAGTTTCCCGGGGTTACAC  
 CACCTAACAGCATCATGGGGGCATGGTGCCTCCGCCAGTAGGCATGGTAGCTCAACCGGGAGCCTCTGG  
 AATGCTAACCCCTATGGCCATGCCTGCAGGCTATATGGGGGCATGCAGGCGTCCATGATGGGTGTGCCG  
 AACGGGATGATGACCACTCAGCAGGCGGCTACATGGCAAGCATGGCAGCTATGCCGAGACTGTGTATG  
 GAGTTCAGCCAGCTCAGCAACTGCAATGGAACCTTACTCAGATGACCCAGCAAATGGCTGGGATGAACTT  
 CTACGGAGCCAAACGGCATGATGAACTATGGACAGTCAATGGGCGGTGAAATGGCCAGGCAGCCAATCAG  
 ACTCTCAGTCCTCAGATGTGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR206829 protein sequence  
 Red=Cloning site Green=Tags(s)

MTGKSVKDVDRYQAVLANLLLEEDNKFCAQCQSKGPRWASWNIGVVICIRCAGIHRNLGVHISRKSVNL  
 DQWTQEIQCMQEMGNKANRLYEAYLPETFRPQIDPAVEGFIRDKYEKKKYMDRSLDINLREKEDDK  
 WKRGNPEAPEKKMEPVVFEKVKMPQKKEDAQLPRKSSPKSAAPVMDLLGLDAPVACSIANSKTSNALEKD  
 LDLLASVSPSSVSRKAVGSMPTAGSAGSVPENLNLFPEPGSKSEETGKKQLSKDSILSLYGSQTPQMPA  
 QAMFMAPAQMAYPTAYPSFPGVTPPNSIMGGMVPPPVMVAQPGASGMLTPMAMPAGYMGGMQASMMGVP  
 NGMMTTQQAGYMASMAAMPQTVYGVQPAQQLQWNLTQMTQQMAGMNFYGANMNYGQSMGGNGQAAANQ  
 TLLSPQMWK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_133716

**ORF Size:** 1287 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\\_133716.3](#), [NP\\_598477.2](#)

**RefSeq Size:** 2923 bp

**RefSeq ORF:** 1287 bp

**Locus ID:** 69780

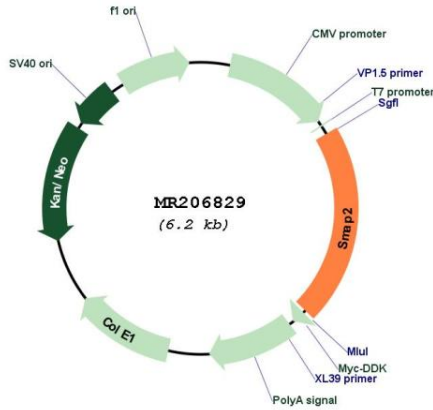
**UniProt ID:** [Q7TN29](#)

**Cytogenetics:** 4 D2.2

**MW:** 46.6 kDa

**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. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206829