

Product datasheet for **SC336919**

Smek1 (PPP4R3A) (NM_001284281) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smek1 (PPP4R3A) (NM_001284281) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPP4R3A
Synonyms:	FLFL1; KIAA2010; MSTP033; PP4R3; PP4R3A; SMEK1; smk-1; smk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

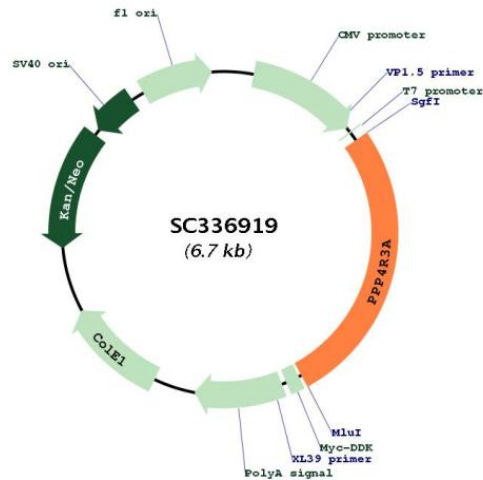


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Fully Sequenced ORF: >SC336919 representing NM_001284281.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACCGACACCCGGCGCGGGTGAAGGTGTACACGCTCAACGAGGACCGGCAGTGGGACGACCGGGGC
ACCGGGCATGTGTCGCTGGCTACGTGGAGCGGCTGAAGGCATGTCCCTGCTTGTGAGGGCTGAGAGC
GACGGTTCCTACTTTTAGAGTCGAAAATAAATCCTAACACTGCATACCAGAAAACAGGAAGATGAA
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CCGGGATCACCTGGATCCCAGGATCTCCAGGCTCTCCTGGATCCGTACCTAAAAATACATCTCAGAGC
GCAGCTATTACTACAAGGGAGGCTCGTGGGTCTGGTAGATTATCCTGATGATGATGAAGATGATGAT
GAGGATGAAGATAAGGAAGATACGTTACCATTGTCAAAGAAAGCAAAATTTGATTCAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001284281

Insert Size: 1785 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001284281.1](#)

RefSeq Size: 3896 bp

RefSeq ORF: 1785 bp

Locus ID: 55671

UniProt ID: [Q6IN85](#)

Cytogenetics: 14q32.12

MW: 67.8 kDa

Gene Summary:

Regulatory subunit of serine/threonine-protein phosphatase 4. May regulate the activity of PPP4C at centrosomal microtubule organizing centers. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AFX phosphorylated on 'Ser-140' (gamma-H2AFX) generated during DNA replication and required for DNA DSB repair.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (4) lacks two alternate in-frame exons and uses an alternate in-frame splice site, compared to variant 3. The encoded isoform (3) is shorter than isoform 1.