

Product datasheet for **SC104547**

Smek1 (PPP4R3A) (NM_032560) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Smek1 (PPP4R3A) (NM_032560) Human Untagged Clone
Tag: Tag Free
Symbol: Smek1
Synonyms: FLFL1; KIAA2010; MSTP033; PP4R3A; smk-1; smk1
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_032560 edited
CGCCCCCTCGCCTCTCCAGGGCCCTTTCCCTGGGCGTCTACTGGCGGGGCCCGCCCCGG
TTCCCGGGCGGCACGATGACCGACACCCGGCGGGTGAAGGTGTACACGCTCAACGAG
GACCGGCAGTGGGACGACCGGGCACCGGCATGTGTCGTCTGGCTACGTGGAGCGGCTG
AAGGGCATGTCCCTGCTTGTGAGGGCTGAGAGCGACGGTCTCTACTTTTAGAGTCGAAA
ATAAATCCTAACACTGCATACCAGAAACAACAGGACACTCTGATTGTGTGGTCTGAAGCA
GAAAATTATGACTTGGCCCTTAGCTTTCAAGAAAAAGCTGGATGTGATGAAATTTGGGAG
AAAATATGTCAGGTTCAAGGAAAGGACCCTTCCGTGGACATCACTCAGGACCTTGTGGAT
GAATCTGAAGAGGAGCGTTTTGATGATATGTCATCGCCAGGCTTAGAATTGCCATCTTGT
GAATTAAGTCGCCTTGAAGAAATTCAGAACTTGTGGCATCATCTTACCTTACCTCTT
CGTCGTGAAAACTTGCCTGGCACTAGAAAATGAGGGTTATATTAAGGCTCCTGGAG
CTTTTTCATGTGTGAAGATTTGGAAAATATTGAAGGACTGCACCACTTGTATGAAATT
ATCAAAGGCATCTTCTCTTGAATCGAACTGCTCTTTTTGAAGTTATGTTCTCTGAAGAA
TGTATAATGGACGTCATTGGATGTTTGAATATGATCCTGCTTTATCACACCACGAAAA
CACAGGGAATTTCTAACAAAAACAGCCAAGTTAAAGAAGTGATCCCATATCAGATCCT
GAGCTGAAACAAAAAATTCATCAGACATACAGAGTTCAGTATATAACAAGATATGGTTCTA
CCAACCTCTTCGGTCTTTGAAGAAAACATGTTATCAACACTTCACTCTTTTATCTTTTTT
AATAAGGTAGAGATTGTTGGCATGTTGCAGGAAGATGAAAAATTTCTGACAGATTTGTTT
GCACAATAACAGATGAAGCAACAGATGAGGAAAAAGACAGGAATTGGTTAACTTTTTTA
AAAGAATTTTGTGCGTTTTCCCAAACGCTACAGCCTCAAAACAGAGATGCTTTTTTCAAG
ACTTTGTCAAACATGGGCATATTACCAGCTTTAGAAGTCATCCTTGGCATGGATGATACA
CAGGTGCGAAGTGTCTACTGATATATTCTCATACTTGGTTGAATATAATCCATCCATG
GTACGAGAGTTTGTGATGCAGGAGGCACAACAGAATGATGATGATATTTTGTCTCAAC
CTCATTATAGAACATATGATTTGTGATACAGATCCTGAACTTGGAGGAGCAGTCCAGCTT
ATGGCCCTGCTTGAACCTTGTGTTGACCCAGAGAACATGTAGCCACTGCCAATAAAAACA
GAAAAGACTGAATTTCTGGGTTTCTTCTACAAGCACTGTATGCATGTTCTCACTGCTCCT
TTACTAGCAAATACAACAGAAGACAACCTAGTAAAGATGATTTTCACTGCCCAACTA



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TTGGCACTTGATTGGAATTGTTAACATTTTGTGTGGAGCACCATACCTACCACATAAAG
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 GCTTTCTTGGCATTATGTGCCCTTCGTTTTAAAAGAAAGATTATTGGATTAAGATGAG
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 GACCACACATTGCCCTTTCTCAGGGAAGGAAATGGAAACAAAAAGCCAACAGGGCAGGG
 GTTTTGAAGTGAAGTCTGGATTGACTGGTCAGTTGCTACAATCAGAATATGCTTTCTT
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 TAGTCAAGCTACAACAGTTTGGAAAACCTCTGTGGGGGAGGGGCGAGTATAAAGTTTTCT
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 TTTTTTTGTTTTATTTGTTTTTTGATTTTTTTTTTCTCCCTGAGTGTATGCTTAGTTG
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 TGCATACAAAAGCAATACTATTTTGTGACTAAATATTTTATATTAATAAATTTACATCAGCA
 ACTGTCTTGAAATTCAGGGAAATAGAATGGAATTTAAAACCTCAACAGTTTTGTAAAT
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 CGGTACATTAATCAAAATGAGGATGGATGATTTAAAAACATTTGACTTTTTTAATAATA
 AAAAGAAAAGTGAAGAGTAAGAGAAATGTATTAGTTGTATGTTTCTGTTTTGTTTTT
 AACTACTCCCTTTGGAATACCAGTTTGACTTGAAGTGGTGGTTCTAAATAAATACCTG
 GCCAGAGGACCATCACCTGTCACCTTATTAACAGTATTTTTAAATAGGTTCTTTTTGT
 TGTCTTAGATGTGATCAAATTTTCAAGGAAAATGAAAATAATTTACTTACCCTCACT
 TTTTAAAGTGAAGAGTTTGAACCTTAAGAATATATTTTCAAATGTGAATAAACTTCATA
 TCCAGGAAAGGATGCTATTTTAAGTATCATATACTTTAAGAGTATCTAGCAAGCGCTGTG
 TGCTTCTGTCTGTCTGTTTATTCTCAGTAAATTACAATGGTGGTACCAAAAAACAA
 GACTATACTGCATAGTTGGATAGAAAACCAAGGAGTCAACTTGCTACAGTCATTAATA
 GTTTTATTATTGGCTGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_032560
Insert Size: 4200 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_032560.3.
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:	<u>NM_032560.3</u> , <u>NP_115949.3</u>
RefSeq Size:	4449 bp
RefSeq ORF:	2463 bp
Locus ID:	55671
Cytogenetics:	14q32.12
Domains:	DUF625
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer protein (isoform 1).</p>