

## Product datasheet for **SC337527**

### Smek1 (PPP4R3A) (NM\_001284280) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smek1 (PPP4R3A) (NM_001284280) Human Untagged Clone
Tag:	Tag Free
Symbol:	Smek1
Synonyms:	FLFL1; KIAA2010; MSTP033; PP4R3; PP4R3A; SMEK1; smk-1; smk1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_032560 edited  
CGCCCCTCGCCTCTCCAGGGCCCTTTCTGGCGTCTACTGGCGGGCCCCCGCCCCGG  
TTCCCGGGCGGCACGATGACCGACACCCGGCGGGTGAAGGTGTACACGCTCAACGAG  
GACCGGCAGTGGGACGACCGGGCACCGGCATGTGTCGTCTGGCTACGTGGAGCGGCTG  
AAGGGCATGTCCCTGCTTGTGAGGGCTGAGAGCGACGGTCTCTACTTTTAGAGTCGAAA  
ATAAATCCTAACACTGCATACCAGAAACAACAGGACACTCTGATTGTGTGGTCTGAAGCA  
GAAAATTATGACTTGGCCCTTAGCTTTCAAGAAAAAGCTGGATGTGATGAAATTTGGGAG  
AAAATATGTCAGGTTCAAGGAAAGGACCCTTCCGTGGACATCACTCAGGACCTTGTGGAT  
GAATCTGAAGAGGAGCGTTTTGATGATATGTCATCGCCAGGCTTAGAATTGCCATCTTGT  
GAATTAAGTCGCCTTGAAGAAATTCAGAACTTGTGGCATCATCTTACCTTACCTCTT  
CGTCGTGAAAACTTGCCTGGCACTAGAAAATGAGGGTTATATTAAGGCTCCTGGAG  
CTTTTTCATGTGTGAAGATTTGGAAAATATTGAAGGACTGCACCACTTGTATGAAATT  
ATCAAAGGCATCTTCTCTTGAATCGAACTGCTCTTTTGAAGTTATGTTCTCTGAAGAA  
TGTATAATGGACGTCATTGGATGTTTGAATATGATCCTGCTTTATCACACCACGAAAA  
CACAGGAATTTCTAACAAAAACAGCCAAGTTTAAAGAAGTGATCCCATATCAGATCCT  
GAGCTGAAACAAAAAATTCATCAGACATACAGAGTTCAGTATATAAAGATATGGTTCTA  
CCAACCTCTTCGGTCTTTGAAGAAAACATGTTATCAACTTCACTCTTTTATCTTTTTTC  
AATAAGGTAGAGATTGTTGGCATGTTGCAGGAAGATGAAAAATTTCTGACAGATTTGTTT  
GCACAATAACAGATGAAGCAACAGATGAGGAAAAAGACAGGAATTGGTTAACTTTTTTA  
AAAGAATTTTGTGCGTTTTCCCAAACGCTACAGCCTCAAAACAGAGATGCTTTTTTCAAG  
ACTTTGTCAAACATGGGCATATTACCAGCTTTAGAAGTCATCCTTGGCATGGATGATACA  
CAGGTGCGAAGTGTCTACTGATATATTCTCATACTTGGTTGAATATAATCCATCCATG  
GTACGAGAGTTTGTATGCAGGAGGCACAACAGAATGATGATGATATTTTGTCTCAAC  
CTCATTATAGAACATATGATTTGTGATACAGATCCTGAACTTGGAGGAGCAGTCCAGCTT  
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GAAAAGACTGAATTTCTGGGTTTCTTCTACAAGCACTGTATGCATGTTCTCACTGCTCCT  
TTACTAGCAAATACAACAGAAGACAACCTAGTAAAGATGATTTTCACTGCCCCAACTA



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TTGGCACTTGATTGGAATTGTTAACATTTTGTGTGGAGCACCATACCTACCACATAAAG  
 AACTACATTATTAATAAGGATATCCTCCGGAGAGTGCTAGTTCTTATGGCCTCGAAGCAT  
 GCTTTCTTGGCATTATGTGCCCTTCGTTTTAAAAGAAAGATTATTGGATTAAGATGAG  
 TTTTACAACCGCTACATAATGAAAAGTTTTTTGTTTGAACCAGTAGTGAAAGCATTTC  
 AACAATGGATCCCGCTACAATCTGATGAACTCTGCCATAATAGAGATGTTTGAATTTATT  
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 GAAGATGTAGATTATGTACAGACATTTAAAGGATTAAGAACTGAGATTTGAACAACAAGA  
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 AGGAGGAGGGGATATCATATATTTAGGGGAAAGACTTAAGCCTTTGAGCTCTCCAGCTTG  
 GACCACACATTGCCCTTTTCTCAGGGAAGGAAATGGAAACAAAAAGCCAACAGGGCAGGG  
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 ATGCCAGCAGTTTCTTTGTATAAAGAGACCTGCCTTTAAAATCATACATTCTGAACATTT  
 TAGTCAAGCTACAACAGTTTGGAAAACCTCTGTGGGGGAGGGGCGAGTATAAAGTTTTT  
 CTCTTTTTTAACTGTTCCCTTTGCCCTTCAAACCTGCAGATATTTTTTTTTTAAAGTGGG  
 ACTTCTCCCTACTTGATTAAGATTGAGTGAATCTAGATGTGGTCATTTGTGCATAA  
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 GCTGGTACCTGTTTTACCATGTGTAATTTTTGTTCTACATCACAGTTCTTAATTTGTTA  
 GAGTTTTATGAAAGATGGTATAGTTTTTTATTGACAAAAGCAAAGTAATCTTACAACATG  
 TGCATACAAAAGCAATACTATTTTGTGACTAAATATTTTATATTAATAAATTTACATCAGCA  
 ACTGTCTTGAAATTCAGGGAAATAGAATGGAATTTAAAACCTCAACAGTTTTGTAAAT  
 CTAGAAACATGAAATTAGTATTCCAAAGAGATTCTGAAATTTCTTTTCTGGGAAATGA  
 CGGTACATTAATCAAAATGAGGATGGATGATTTAAAAACATTTGACTTTTTTAATAATA  
 AAAAGAAAAGTGAAGAGTAAGAGAAATGTATTAGTTGTATGTTTCTGTTTTGTTTTT  
 AACTACTCCCTTTGGAATACCAGTTTGACTTGAAGTGGTGGTTCTAAATAAATACCTG  
 GCCAGAGGACCATCACCTGTACCTTATTAACAGTATTTTTAAATAGGTTCTTTTTGT  
 TGTCTTAGATGTGATCAAATTTTCAAGGAAAATGAAAATAATTTACTACTACCCTCACT  
 TTTTAAAGTGAAGAGTTTGAACCTTAAGAATATATTTTCAAATGTGAATAAACTTCATA  
 TCCAGGAAAGGATGCTATTTTAAAGTATCATATACTTTAAGAGTATCTAGCAAGCGCTGTG  
 TGCTTCTCTGTCTGTCTGTTTATTCTCAGTAAATTACAATGGTGGTACCAAAAAACAA  
 GACTATACTGCATAGTTGGATAGAAAACCAAGAAAGTGTCAACTTGCTACAGTCATTAATA  
 GTTTTATTATTGGCTGAAAAAATAAAAAAAAAA

**Restriction Sites:**

EcoRI-XbaI

**ACCN:**

NM\_001284280

**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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001284280.1</a></u> , <u><a href="#">NP_001271209.1</a></u>
<b>RefSeq Size:</b>	4574 bp
<b>RefSeq ORF:</b>	2463 bp
<b>Locus ID:</b>	55671
<b>UniProt ID:</b>	<u><a href="#">Q6IN85</a></u>
<b>Cytogenetics:</b>	14q32.12
<b>Gene Summary:</b>	<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 (3) represents the longer transcript and encodes the longer isoform (1).</p>