

## Product datasheet for **SC121891**

### **SMEK2 (PPP4R3B) (NM\_020463) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SMEK2 (PPP4R3B) (NM_020463) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMEK2
Synonyms:	FLFL2; PP4R3B; PSY2; SMEK2; smk1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_020463, the custom clone sequence may differ by one or more nucleotides

```
ATGTCGGATACGCGGCGGCGAGTGAAGGTCTATACCCCTGAACGAAGACCGGCAATGGGACGACCGAGGCA
CCGGGCACGTCTCCTCCACTTACGTGGAGGAGCTCAAGGGGATGTCGCTGCTGGTTCGGGCAGAGTCCGA
CGGATCACTACTTTGGAATCAAAGATAAATCCAAATACTGCATATCAGAAACAACAGGATACATTAATT
GTTTGGTCAGAAGCAGAGAACTATGATTTGGCTCTGAGTTTTTCAGGAGAAAGCTGGCTGTGATGAGATCT
GGGAAAAAATTTGTCAGGTTCAAGGTAAGACCCATCAGTGGAAGTCACACAGGACCTCATTGATGAATC
TGAAGAAGAACGATTTGAAGAAATGCCTGAAACTAGTCATCTGATTGACCTGCCACATGTGAACTCAAT
AAACTTGAAGAGATTGCTGACTTAGTTACCTCAGTGCTCTCCTCACCTATCCGTAGGGAAAAAGCTGGCTC
TCGCCTTGAAAAATGAAGGCTATATTAATAAACTATTGCAGCTGTTCCAAGCTTGCAGAGAACCTAGAAAA
CACTGAAGGCTTACACCATTTGTATGAAATTTAGAGGAATCTTATTCCTAAATAAGGCAACTCTTTTT
GAGGTAATGTTTTCTGATGAGTGTATCATGGATGTCGTGGGATGCCTTGAATATGACCCTGCTTTGGCTC
AGCCAAAAAGACATAGAGAATTCTTGACCAAACTGCAAAGTTCAAGGAAGTTATACCAATAACAGACTC
TGAATAAGGCAAAAATACATCAGACTTACAGGGTACAGTACATTCAGGACATCATTTTCCCACACCA
TCTGTTTTTGAAGAGAATTTTCTTCTACTCTTACGTCTTTTATTTTCTCAACAAGTTGAGATAGTCA
GCATGTTGCAGGAAGATGAGAAGTTTTGTCTGAAGTTTTTGCACAATTAACAGATGAGGCTACAGATGA
TGATAAACGGCGTGAATTTGGTTAATTTTTCAAGGAGTTTTGTGCATTTTCTCAGACATTACAACCTCAA
AACAGGGATGCATTTTCAAACATTGGCAAAATTTGGGAATTTCTCCTGCTCTTGAATTTGTAATGGGCA
TGGATGATTTGCAAGTCAGATCAGCTGCTACAGATATATTTCTATCTAGTAGAATTTAGTCCATCTAT
GGTCCGAGAGTTTGTAAATGCAAGAAGCTCAGCAGAGTGATGACGATATTCTTCTTATTAATGTGGTAAT
GAACAAATGATCTGTGATCTGATCCTGAGCTAGGAGGCGCTGTTGAGTTAATGGGACTTCTTCGTACTC
TAATTGATCCAGAGAACATGCTGGCTACAATAATAAAACCGAAAAAAGTGAATTTCTAAATTTTTTCTA
CAACCATTGTATGCATGTTCTCACAGCACCACTTTTGACCAATACTTCAGAAGACAAATGTGAAAAGGAT
AATATAGTTGGATCAAACAAAAACAACAATTTGTCCCGGTGCCCTTCGCTTTATGAGGCGGATAATTG
GACTTAAAGATGAATTTTATAATCGTTACATCACCAAGGGAAATCTTTTTGAGCCAGTTATAAATGCACT
TCTGGATAATGGAACCGGTATAATCTGTTGAATTCAGCTGTTATTGAGTTGTTTGAATTTATAAGAGTG
GAAGATATCAAGTCTCTTACTGCCCATATAGTTGAAAATTTTATAAAGCACTTGAATCGATTGAATATG
TTCAGACATTCAAAGGATTGAAGACTAAATATGAGCAAGAAAAAGACAGACAAAAATCAGAACTGAACAG
TGTACCATCTATATTGCGTAGTAACAGATTTTCGAGAGATGCAAAGCCTTGAAGAGGATGAAGAAATG
TGGTTTAAATGAAGATGAAGAAGGGAAGGAAAAGCAGTTGTGGCACCAGTGGAAAAACCTAAGCCAGAAG
ATGATTTTCCAGATAATTATGAAAAGTTTATGGAGACTAAAAAGCAAAGAAAGTGAAGACAAGGAAAA
CCTTCCAAAAAGGACATCTCCTGGTGGCTTCAAATTTACTTTTCTCCCACTCTGCCAGTGCTGCTAATGGA
ACAAACAGTAAATCTGTAGTGGCTCAGATACCACCAGCAACTTCTAATGGATCCTCTTCCAAAACCAAA
ACTTGCTACGTGAGTAAACAGCCACCAAGGGAAGTTTGGTTGGCTTAGTGGATTATCCAGATGATGAAGA
GGAAGATGAAGAAGAAGAATCGTCCCCAGGAAAAAGACCTCGTCTTGGCTCATAA
```

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_020463 unedited ACTCCTATAGCGGCCGCGNAATTCGCACGAGGACAAGATGGCGGATCTGTAGTAGTTAC CGCGGGCGCGGGAGAGCAAGCGAGCCCTGGGGGGCAAAGAGACGGGAGAGTGGGTGTATG CGCGGGTGAAGTGAGAGGTAACGGGGCCTCCGGGCGGAGAGGCCCTCAGTGGCTCTTGTC CCCCTTTCGCGGCTGAACCTTTGGAGCCATGGTGAATTCGGGCCTCTCCGAAGCCGCCG CCGCCGCCACCGCCACTACTGCCTTTACCGTCTCCTAAGAGTGAGGAGCGCGGACGAGGT AAGCGAGGAGGCGCGGCTAGAGCGGTGGAGACAGCAGCCACCATGTCGGATACGCGGCG GCGAGTGAAGGTCTATACCCTGAACGAAGACCGGCAATGGGACGACCGAGGCACCGGCA CGTCTCCTCCACTTACGTGGAGGAGCTCAAGGGGATGTCGCTGCTGGTTCGGGCAGAGTC CGACGGATCACTACTCTTGAATCAAAGATAAATCCAATACTGCATATCAGAAACAACAG GATACATTAATTGTTTGGTCAGAAGCAGAGAACTATGATTTGGCTCTGAGTTTTTCAGGAG AAAGCTGGCTGTGATGAGATCTGGGAAAAAATTTGTCAGGTTCAAGGTAAGACCCATCA GTGGAAGTCACACAGGACCTCATTGATGAATCTGAAGAAGACGATTTGAAGAAATGCCTG AAACTAGTCATCTGATTGACCTGCCACATGTGAACTCAATAAACTTGAAGAGATTGCTG ACTTAGTTACCTCAGTGTCTCCTCACCTATCCGTAGGAAAAGCTGGCTCTCGCCTTGA AAATGAAGCTTATTAC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_020463
<b>Insert Size:</b>	4100 bp
<b>OTI Disclaimer:</b>	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>	<a href="#">NM_020463.1</a> , <a href="#">NP_065196.1</a>
<b>RefSeq Size:</b>	4172 bp
<b>RefSeq ORF:</b>	2295 bp
<b>Locus ID:</b>	57223
<b>UniProt ID:</b>	<a href="#">Q5MIZ7</a>
<b>Cytogenetics:</b>	2p16.1

**Gene Summary:**

Regulatory subunit of serine/threonine-protein phosphatase 4 (PP4). May regulate the activity of PPP4C at centrosomal microtubule organizing centers.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks two in-frame exons in the coding region, compared to variant 1. The resulting isoform (2) lacks two internal segments, compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.