

Product datasheet for **RC239623**

SMEK2 (PPP4R3B) (NM_001282850) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMEK2 (PPP4R3B) (NM_001282850) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SMEK2
Synonyms:	FLFL2; PP4R3B; PSY2; SMEK2; smk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC239623 representing NM_001282850
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGATACGCGGCGGCGAGTGAAGTCTATACCTGAACGAAGACCGCAATGGGACGACCGAGGCA
 CCGGGCAGTCTCTCCACTTACGTGGAGGAGCTCAAGGGGATGTCGCTGCTGGTTCGGGCAGAGTCCGA
 CGGATCACTACTCTTGAATCAAAGATAAATCCAAATACTGCATATCAGAAAACAAGGATACATTAATT
 GTTTGGTCAGAAGCAGAGAACTATGATTTGGCTCTGAGTTTTCCAGGAGAAAGCTGGCTGTGATGAGATCT
 GGGAAAAAATTTGTCAAGTTCAAGGTAAGACCCATCAGTGGAAGTCACACAGGACCTCATTGATGAATC
 TGAAGAAGAACGATTTGAAGAAATGCCTGAAACTAGTCATCTGATTGACCTGCCACATGTGAACCTCAAT
 AAATTGAAGAGATTGCTGACTTAGTTACCTCAGTCTCTCTCACCTATCCGTAGGGAAAAGCTGGCTC
 TCGCCTTGAAAAATGAAGGCTATATTAATAAACTATTGCAGCTGTTCCAAGCTTGCAGAACCTAGAAAA
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 AACAGGGATGCATTTTCAAACATTGGCAAAATGGGAATTTCTCTGCTTTGAAATTTAGTCCATCTAT
 GGTCAGAGATTTGTAATGCAAGAAGCTCAGCAGAGTGTGACGATATTCTTCTTAAATGTTGGTAATT
 GAACAAATGATCTGTGACTGATCCTGAGCTAGGAGGCGCTGTTGAGTTAATGGGACTTCTTCGTA
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 CAACCATGATGCATGTTCTCAGCAGCACTTTTGACCAATACTTCAGAAGACAAATGTGAAAAGGAT
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 GGAAGAGGATGAAGAAATGTGGTTAATGAAGATGAAGAAGAGGAAGGAAAAAGCAGTTGTGGCACCAGTG
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 AAAGTGAAGACAAGGAAAACTTCCAAAAGGACATCTCTGGTGGCTTCAAATTTACTTTCTCCCACTC
 TGCCAGTGTCTAATGGAACAAACAGTAAATCTGTAGTGGCTCAGATACCACCAGCAACTCTAATGGA
 TCCTCTTCCAAAACCAAACTTGCCTACGTAGTAAACAGCCACCAAGGGAAGTTTGGTTGGCTTAGTGG
 ATTATCCAGATGATGAAGAGGAAGATGAAGAAGAAGTTCGTCCTCCAGGAAAAGACCTCGTCTTGCTC
 A

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239623 representing NM_001282850
Red=Cloning site Green=Tags(s)

MSDTRRRVKVYTLNEDRQWDDRGTGHVSSSTYVEELKGMSLLVRAESDGSLLLLESKINPNTAYQKQDQTLI
VWSEAEYDLALSFQEKAGCDEIWEKICQVQKDPVSVETQDLIDSEEEERFEEMPETSHLIDLPTCELN
KLEEIADLVTSVLSPIRREKLALALENEGYYIKLLQLFQACENLENTEGLHHLYEIIRGILFLNKATLF
EVMFSDECIMDVVGCLEYPALAQPKRHREFLTKAKFKEVIPIITDSELRQKIHQTYRVQYIQDIILPTP
SVFEENFLSTLTSFIFFNKVEIVSMLQEDEKFLSEVFAQLTDEATDDDKRRELVNFFKEFCAFSQTLPQ
NRDAFFKTLAKLGILPALEIVMGDDLQVRSAAATDIFSYLVEFSPSMVREFVMQEAQQSDDILLINVI
EQMICDTPELGGAVQLMGLLRTLIDPENMLATTNKTEKSEFLNFFYNHCHMHLTAPLLTNTSEDKCEKD
NIVGSNKNNTICPDNYQTAQLLALILELLTFCVEHHTYHIKNYIMNKDLLRRVLLMNSKHTFLALCALR
FMRRIIGLKDEFYNYITKGNLFEPVINALLDNGTRYNLLNSAVIELFEFIRVEDIKSLTAHIVENFYKA
LESIEYVQTFKGLKTKYEQEKDRQNQKLSVPSILRSNRFRRDAKALEEDEEMWFNEDEEEEGKAVVAPV
EKPKPEDDFPDNYEKFMETKKAKESEDKENLPKRTSPGGFKFTFSHSASAANGTNSKSVVAQIPPATSNQ
SSSKTTNLPSTVATKGSVLVGLVDYPPDEEEDEEEESSPRKRPRLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_001282850

ORF Size: 2451 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_001282850.2](#)

RefSeq Size: 5521 bp

RefSeq ORF: 2454 bp

Locus ID: 57223

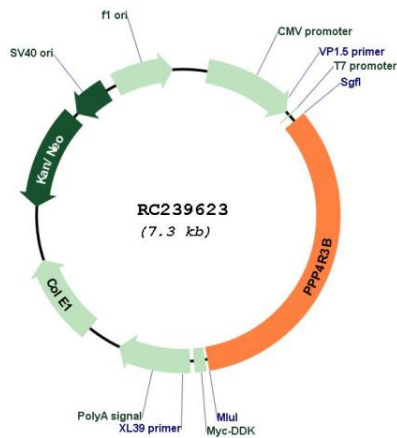
UniProt ID: [Q5MIZ7](#)

Cytogenetics: 2p16.1

MW: 94.2 kDa

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]

Product images:



Circular map for RC239623