

Product datasheet for **RG239623**

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:	TurboGFP
Symbol:	SMEK2
Synonyms:	FLFL2; PP4R3B; PSY2; SMEK2; smk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239623 representing NM_001282850.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCGGATACGCGGCGGCGAGTGAAGGTCTATACCTGAACGAAGACCGCAATGGGACGACCGAGGC
ACCGGGCAGCTCTCTCCACTTACGTGGAGGAGCTCAAGGGGATGTCGCTGCTGGTTCGGGCAGAGTCC
GACGGATCACTACTCTTGAATCAAAGATAAATCCAAATCTGCATATCAGAAACAACAGGATACATTA
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CTGTTGAATTCAGCTGTTATTGAGTTGTTTGAATTTATAAGAGTGAAGATATCAAGTCTTACTGCC
CATATAGTTGAAAATTTTATAAAGCACTTGAATCGATTGAATATGTTTCAGACATTCAAAGGATTGAAG
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CCTGGTGGCTTCAAATTTACTTTCTCCACTCTGCCAGTGCTGCTAATGGAACAAACAGTAAATCTGTA
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ACAGCCACCAAGGGAAGTTTGGTTGGCTTAGTGGATTATCCAGATGATGAAGAGGAAGATGAAGAAGAA
GAATCGTCCCCCAGGAAAAGACCTCGTCTTGGCTCA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239623
 Blue=ORF Red=Cloning site Green=Tag(s)

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MSDTRRRVKVYTLNEDRQWDDRGTGHVSSTYVEELKGMSLLVRAESDGSLLLESKINPNTAYQKQDQL
IVWSEAE NYDLALSFQEKAGCDEIWEKICQVQGKDPSEVTQDLIDESEEEERFEEMPETSHLIDLPTCE
LNKLEEIADLVTSVLSSPIRREKLALALENEGYIKKLLQLFQACENLENTEGLHHLYEIIRGILFLNKA
TLFEVMFSDECIMDVVGCLEYPALAQPKRHREFLTKTAKFKEVIPITDSELRQKIHQTYRVQYIQDII
LPTPSVFEENFLSTLTSFIFFNKVEIVSMLQEDEKFLSEVFAQLTDEATDDDKRREL VNFKEFCAFSQ
TLQPQNRDAFFKTLAKLGILPALEIVMGMDLQVRSAAATDIFSYLVEFSPSMVREFVMQEAQQSDDDIL
LINVVIEQMICDTPDELGGAVQLMGLLRTLIDPENMLATTNKTEKSEFLNFFYNHCMHVL TAPLLTNTS
EDKCEKDNIVGSNKNTICPDNYQTAQLLALILELLTFCVEHHTYHIKNYIMNKDLLRRVLVLMNSKHT
FLALCALRFMRRIIGLKDEFYNYITKGNLFEPVINALLDNGTRYNLLNSAVIELFEFIRVEDIKSLTA
HIVENFYKALESIEYVQTFKGLKTKYEQEKDRQNKLN SVPSILRSNRFRRDAKALEEDEMWFNEDEE
EEGKAVVAPVEKPKPEDDFPDNYEFMETKKAKESEDKENLPKRTSPGGFKFTFSHSASAANGTNSKSV
VAQIPPATSN GSSSKTTNLPTSVTATKGSVLGLVDYPDDEEEDEEEESSPRKRPRLGS
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MGYGFYHFGTYP SGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites: Sgfl-Mlul

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](#)

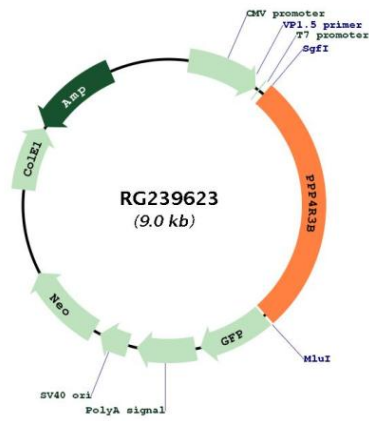
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

RefSeq: [NM_001282850.2](#)

RefSeq Size:	5521 bp
RefSeq ORF:	2454 bp
Locus ID:	57223
UniProt ID:	<u>Q5MIZ7</u>
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 RG239623