

Product datasheet for **RG239633**

Smek1 (PPP4R3A) (NM_001284280) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smek1 (PPP4R3A) (NM_001284280) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Smek1
Synonyms:	FLFL1; KIAA2010; MSTP033; PP4R3; PP4R3A; SMEK1; smk-1; smk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239633 representing NM_001284280.
 Blue=ORF Red=Cloning site Green=Tag(s)

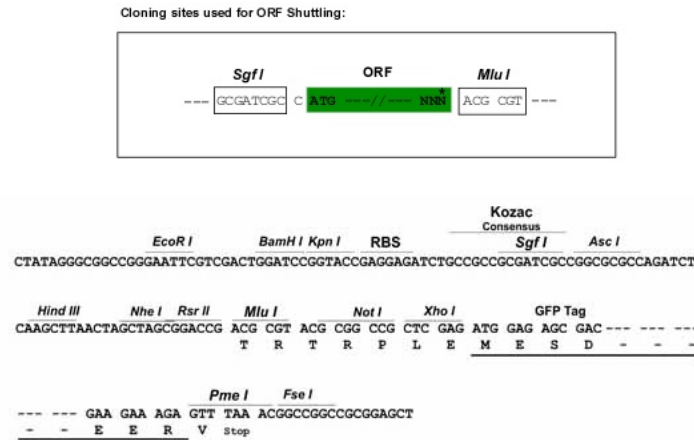
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239633
 Blue=ORF Red=Cloning site Green=Tag(s)

MTDTRRRVKVYTLNEDRQWDDRGTGHVSSGYVERLKGMSLLVRAESDGSLLLESKINPNTAYQKQDQL
 IWSEAE NYDLALSFQE KAGCDEIWEKICQVQ GKDP SVDITQDLVDESEEE RFDDMSSPGL ELPSC ELS
 RLEEIAELVASSLP SPLRREKLALALENEG YIKKLELFHV CEDLENIEGLHHLYEIIKGI FLLNRTAL
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 QPQNRDAFFKTL SNMGILPALEVILGMDDTQVRS AATDIFS YLVEYNPSMVREFVMQEAQQNDD DILLI
 NLIIEHMI CDTPPELGGAVQLMGLLR TLVDPENMLATANKTEKTEFLGFFYKHC MHVLTAPLLANTTED
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 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001284280

ORF Size: 2460 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_001284280.1](#), [NP_001271209.1](#)

RefSeq Size: 4574 bp

RefSeq ORF: 2463 bp

Locus ID: 55671

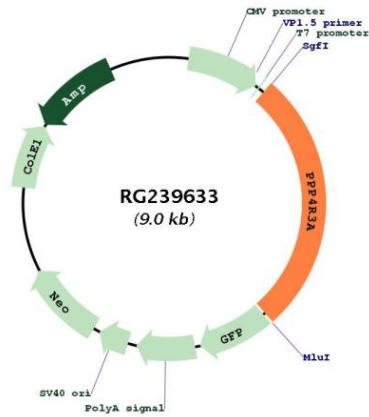
UniProt ID: [Q6IN85](#)

Cytogenetics: 14q32.12

MW: 94.3 kDa

Gene Summary: 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]

Product images:



Circular map for RG239633