

Product datasheet for **SC324353**

SAPS2 (PPP6R2) (NM_014678) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SAPS2 (PPP6R2) (NM_014678) Human Untagged Clone
Tag:	Tag Free
Symbol:	SAPS2
Synonyms:	KIAA0685; PP6R2; SAP190; SAPS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_014678.3

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CCACGCGTCCGCCATTTTGGAGCGATCGGAGTGCCGCCCGCGGCCCGAGTCGGTCTCGA
GCCGCCGCCGCCGTGCCGGTGCCGTAGGCGCTGCGCCCTCGGCCGGGCCATGTGTG
TGCGGCCCGGCCGAGGCCGCCCGGCTTTGCCTCCACCAGCGCCCTGGCCTCCGCTCGGG
CCTCCACACGGGCTCCGAAGAGCTGCCGCGACGCCCGGCCCGCAGGGCAGGTAAAGAGA
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AGCTCTGCGGCCGTACGATGTTCTGGAAGTTTGACTTGAACACCACGTCCCATGTTGAC
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TGCATAGCCGCTATTCTCTCCACGCTGCCCGTGAGGAGAGGACAGAAGCCAGCGGATCC
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CGTGGGAACATGGGCCACCTCACACGGATCGCCAACGCGGTGGTGAGAACCTGGAGCGG
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CTAGGGGCCATCATGGCAGTCACAGCAGCCCCAGCCATGGTGGCCACCCTGGGGACAGTG
ACAAAGGACGGGAAGACAGATGCCCGCCAGAAGGAGCTGCCTTAAATGGCCAGTGTA
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ACCTGGTGATGCAATCTTTTTTTTTTTAATTTAATTTAATTTAAATAAATGCTGCATT
GGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:

Please inquire

ACCN:

NM_014678

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_014678.3 , NP_055493.2
RefSeq Size:	4004 bp
RefSeq ORF:	2799 bp
Locus ID:	9701
UniProt ID:	O75170
Cytogenetics:	22q13.33
Domains:	SAPS
Gene Summary:	The protein encoded by this gene is a regulatory protein for the protein phosphatase-6 catalytic subunit. Together, these proteins act as a significant T-loop phosphatase for Aurora A, an essential mitotic kinase. Loss of function of either the regulatory or catalytic subunit of protein phosphatase-6 interferes with spindle formation and chromosome alignment. [provided by RefSeq, May 2017] Transcript Variant: This variant (3) lacks an exon in the coding region but maintains the reading frame, compared to variant 1. The encoded isoform (3) is shorter than 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.