

## Product datasheet for **RC200092**

### SKIP (INPP5K) (NM\_016532) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SKIP (INPP5K) (NM_016532) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SKIP
Synonyms:	MDCCAID; PPS; SKIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC200092 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCTCGCGGAAGCTGAGCGGGCCGAAAGGCAGGAGGCTCAGCATACACGTCGTGACTTGAACGTGG  
 CTTCCGGCAGCGCCCTCTAGATCTCAGTGACCTGCTTACAGTGAACAACCGGAACCTCAATCTTGACAT  
 ATATGTTATTGGTTTGCAGGAATTGAACTCTGGGATCATAAGCCTCCTTTCCGATGCTGCCTTTAATGAC  
 TCGTGGAGCAGTTTCTCATGGATGTGCTTTCCCTCTGAGCTTCATCAAGGTCTCCCATGTCCGTATGC  
 AGGGGATCCTCTTACTGGTCTTTGCCAAGTATCAGCATTGGCCCTATATCCAGATTCTGTCTACTAAATC  
 CACCCCACTGGCTGTTGGTACTGGGGAAACAAGGTGGAGTCAACATCTGCCTGAAGCTTTATGGC  
 TACTATGTCAGCATCAACTGCCACCTGCCTCCACATTTCCAACAATTACCAGCGGCTGGAGCACT  
 TTGACCGATCCTGGAGATGCAGAATTGTGAGGGGCGAGACATCCCAAACATCCTGGACCAGCCTCAT  
 TATCTGGTTTGGAGACATGAACCTTCGGATCGAGGACTTTGGGTTGCACCTTTGTTCCGGAATCCATTA  
 AATCGGTGCTACGGTGGCTGTGGGAGAAGGACCAGCTCAGCATTGCCAAGAAACATGACCCGCTGCCTC  
 GGGAGTCCAGGAGGGCCGCTACTCTTCCCGCCACCTACAAGTTTGATAGGAACCTCAACGACTATGA  
 CACCAGTGAGAAAAACGCAAGCCTGCATGGACCGATCGCATCCTGTGGAGGCTGAAGCGGCAGCCCTGT  
 GCTGGCCCGACACTCCCATACCGCCGGCGTCACACTTCTCCTGTCTCTGAGGGGTACAGCAGCCACA  
 TGACGTACGGCATCAGCGACCACAAGCCTGTCTCCGGCACGTTGACTTGGAGCTGAAGCCATTGGTGTCT  
 TGCTCCGCTGATCGTCTGATGCCCGAGGACCTGTGGACCGTGGAAAATGACATGATGGTCAGCTACTCT  
 TCAACCTCGGACTTCCCAGCAGCCGTTGGGACTGGATTGGACTGTACAAGGTGGGGCTGCGGGACGTTA  
 ATGACTACGTGTCTATGCCTGGGTCGGGGACAGCAAGGTCTCCTGCAGCGACAACCTGAACCAGTTTA  
 CATCGACATCAGCAATATCCCTACCACTGAAGATGAGTTTCTCCTCTGTTACTACAGCAACAGTCTGCGT  
 TCTGTGGTGGGATAAGCAGACCCTCCAGATCCCGCCTGGCTCCTTGGGGAGGACCCACTGGGTGAAG  
 CACAGCCACAGATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC200092 protein sequence  
 Red=Cloning site Green=Tags(s)

MSSRKLSGPKGRRLSIHVVTWNVASAPPLDLSDLLQLNRRNLNLDIYVIGLQELNSGIIISLLSDAAFND  
 SWSFLMDVLSPLSFIKVSVMQGIILLVFAKYQHLPYIQLSTKSTPTGLFGYWGNKGGVNICLKLYG  
 YVYSIINCHLPPHISNNYQRLEHFDRILEMQNCEGRDIPNILDHDLIIWFGDMNFRIEDFGLHFVRESIK  
 NRCYGGLEWKDQLSIKKHDPLREFQEGRLLFPPTYKFDNRNSNDYDTSEKKRPAWTDRIWRLKRQPC  
 AGPDTPIPPASHFSLSLRGYSSHMTYGISDHKPVSGTFDLELKPLYSAPLIVLMPEDLWTVENDMMVSY  
 STSDFPSSPWDWIGLYKVGRLDNDYVSYAWVGDSKVSCSDNLNQVYIDISNIPTTEDEFLLCYYSNSLR  
 SVVGISRPFQIPPGSLREDPLGEAQPQI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6149\\_h03.zip](https://cdn.origene.com/chromatograms/mk6149_h03.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**ACCN:** NM\_016532

**ORF Size:** 1344 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\\_016532.4](#)
**RefSeq Size:** 3001 bp

**RefSeq ORF:** 1347 bp

**Locus ID:** 51763

**UniProt ID:** [Q9BT40](#)
**Cytogenetics:** 17p13.3

**Domains:** IPPc, Exo\_endo\_phos

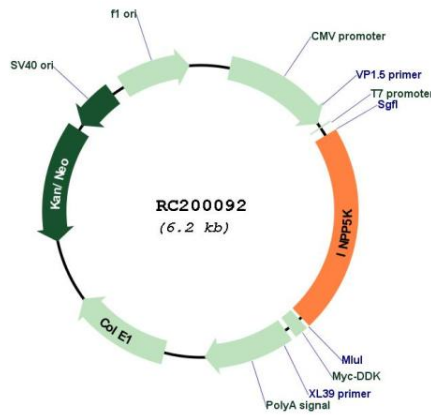
**Protein Families:** Druggable Genome, Phosphatase

**Protein Pathways:** Inositol phosphate metabolism, Insulin signaling pathway, Metabolic pathways, Phosphatidylinositol signaling system

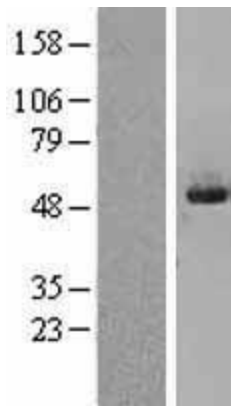
**MW:** 51.1 kDa

**Gene Summary:** This gene encodes a protein with 5-phosphatase activity toward polyphosphate inositol. The protein localizes to the cytosol in regions lacking actin stress fibers. It is thought that this protein may negatively regulate the actin cytoskeleton. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2008]

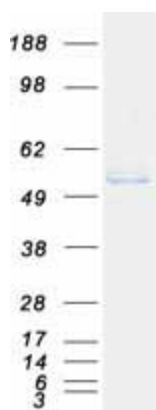
**Product images:**



Circular map for RC200092



Western blot validation of overexpression lysate (Cat# [LY402561]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200092 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified INPP5K protein (Cat# [TP300092]). The protein was produced from HEK293T cells transfected with INPP5K cDNA clone (Cat# RC200092) using MegaTran 2.0 (Cat# [TT210002]).