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Product datasheet for RC212090

SKIP (INPP5K) (NM_130766) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SKIP (INPP5K) (NM_130766) 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)

View online »

ORF Nucleotide Sequence:

>RC212090 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCTCGCGGAAGCTGAGCGGGCCGAAAGGCAGGAGGCTCAGCATACACGTCGTGACTTGGAACGTGG
CTTCGGCAGCGCCCCCTCTAGATCTCAGTGACCTGCTTCAGCTGAACAACCGGAACCTCAATCTTGACAT
ATATGTTATTGGTTTGCAGGAATTGAACTCTGGGATCATAAGCCTCCTTTCCGATGCTGCCTTTAATGAC
TCGTGGAGCAGTTTCCTCATGGATGTGCTTTCCCCTCTGAGCTTCATCAAGGTCTCCCATGTCCGTATGC
AGGGGATCCTCTTACTGGTCTTTGCCAAGTATCAGCATTTGCCCTATATCCAGATTCTGTCTACTAAATC
CACCCCCACTGGCCTGTTTGGGTACTGGGGGAACAAAGGTGGAGTCAACATCTGCCTGAAGCTTTATGGC
TACTATGTCAGCATCATCAACTGCCACCTGCCTCCCCACATTTCCAACAATTACCAGCGGCTGGAGCACT
TTGACCGGATCCTGGAGATGCAGAATTGTGAGGGGCGAGACATCCCAAACATCCTGGACCACGACCTCAT
TATCTGGTTTGGAGACATGAACTTTCGGATCGAGGACTTTGGGTTGCACTTTGTTCGGGAATCCATTAAA
AATCGGTGCTACGGTGGCCTGTGGGAGAAGGACCAGCTCAGCATTGCCAAGAAACATGACCCGCTGCTCC
GGGAGTTCCAGGAGGGCCGCCTACTCTTCCCGCCCACCTACAAGTTTGATAGGAACTCCAACGACTATGA
CACCAGTGAGAAAAAACGCAAGCCTGCATGGACCGATCGCATCCTGTGGAGGCTGAAGCGGCAGCCCTGT
GCTGGCCCCGACACTCCCATACCGCCGGCGTCACACTTCTCCTTGTCTCTGAGGGGCTACAGCAGCCACA
TGACGTACGGCATCAGCGACCACAAGCCTGTCTCCGGCACGTTCGACTTGGAGCTGAAGCCATTGGTGTC
TGCTCCGCTGATCGTCCTGATGCCCGAGGACCTGTGGACCGTGGAAAATGACATGATGGTCAGCTACTCT
TCAACCTCGGACTTCCCCAGCAGCCCGTGGGACTGGATTGGACTGTACAAGGTGGGGCTGCGGGACGTTA
ATGACTACGTGTCCTATGCCTGGGTCGGGGACAGCAAGGTCTCCTGCAGCGACAACCTGAACCAGGTTTA
CATCGACATCAGCAATATCCCTACCACTGAAGATGAGTTTCTCCTCTGTTACTACAGCAACAGTCTGCGT
TCTGTGGTGGGGATAAGCAGACCCTTCCAGATCCCGCCTGGCTCCTTGAGGGAGGACCCACTGGGTGAAG
CACAGCCACAGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212090 protein sequence
Red=Cloning site Green=Tags(s)

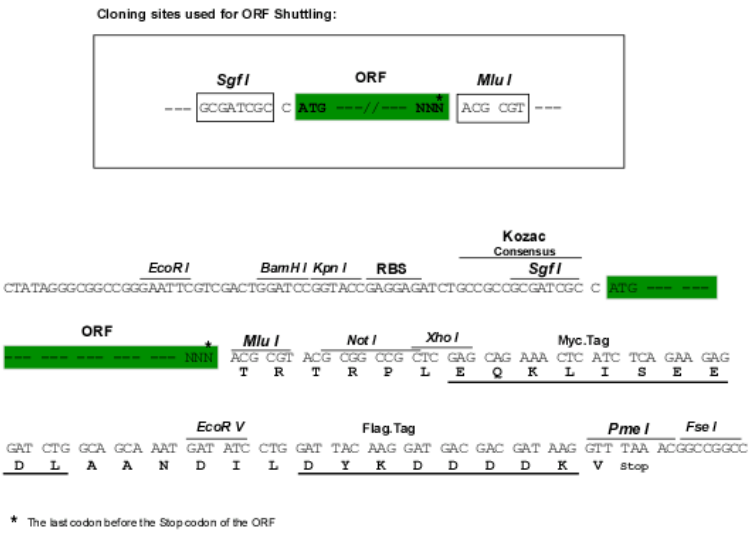
MSSRKLSGPKGRRLSIHVVTWNVASAAPPLDLSDLLQLNNRNLNLDIYVIGLQELNSGIISLLSDAAFND
SWSSFLMDVLSPLSFIKVSHVRMQGILLLVFAKYQHLPYIQILSTKSTPTGLFGYWGNKGGVNICLKLYG
YYVSIINCHLPPHISNNYQRLEHFDRILEMQNCEGRDIPNILDHDLIIWFGDMNFRIEDFGLHFVRESIK
NRCYGGLWEKDQLSIAKKHDPLLREFQEGRLLFPPTYKFDRNSNDYDTSEKKRKPAWTDRILWRLKRQPC
AGPDTPIPPASHFSLSLRGYSSHMTYGISDHKPVSGTFDLELKPLVSAPLIVLMPEDLWTVENDMMVSYS
STSDFPSSPWDWIGLYKVGLRDVNDYVSYAWVGDSKVSCSDNLNQVYIDISNIPTTEDEFLLCYYSNSLR
SVVGISRPFQIPPGSLREDPLGEAQPQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6398_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130766

ORF Size: 1347 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_130766.1, NM_130766.2, NP_570122.1

RefSeq Size: 3232 bp

RefSeq ORF: 1119 bp

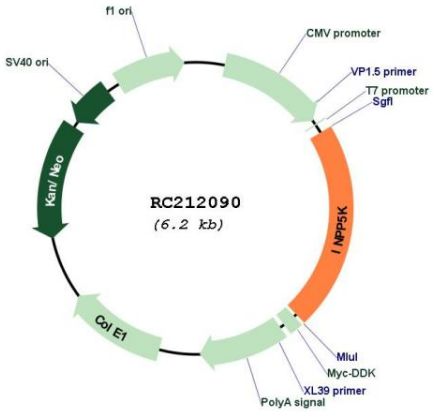
Locus ID: 51763

UniProt ID: Q9BT40

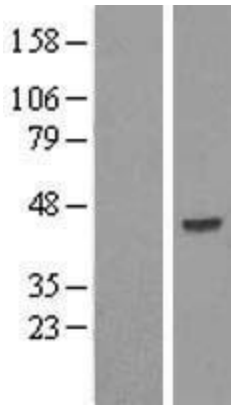
Cytogenetics: 17p13.3

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]

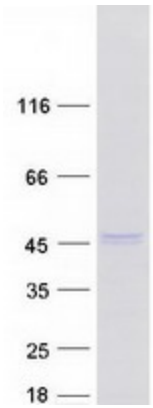
Product images:



Circular map for RC212090



Western blot validation of overexpression lysate (Cat# [LY427643]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC227852] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified INPP5K protein (Cat# [TP312090]). The protein was produced from HEK293T cells transfected with INPP5K cDNA clone (Cat# RC212090) using MegaTran 2.0 (Cat# [TT210002]).