

Product datasheet for **RG227852**

SKIP (INPP5K) (NM_001135642) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SKIP (INPP5K) (NM_001135642) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INPP5K
Synonyms:	MDCCAID; PPS; SKIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227852 representing NM_001135642
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCTCGCGGAAGCTGAGCGGGCCGAAAGGCAGGAGGCTCAGCATACACGTCGTGACTTGAACGTGG
 CTTCCGGCAGCGCCCCCTAGATCTCAGTGACCTGCTTACAGTGAACAACCGGAACCTCAATCTTGACAT
 ATATGTTATTGGTTTGCAGGAATTGAACTCTGGGATCATAAGCCTCCTTCCGATGCTGCCTTAAATGAC
 TCGTGGAGCAGTTTCTCATGGATGTGCTTCCCTCTGAGCTTCATCAAGGTCTCCCATGTCCGTATGC
 AGGGGATCCTCTTACTGGTCTTTGCCAAGTATCAGCATTGGCCCTATATCCAGATTCTGTCTACTAAATC
 CACCCCACTGGCTGTTGGTACTGGGGAAACAAGGTGGAGTCAACATCTGCCTGAAGCTTTATGGC
 TACTATGTCAGCATCAACTGCCACCTGCCTCCACATTTCCAACAATTACCAGCGGCTGGAGCACT
 TTGACCGATCCTGGAGATGCAGAATTGTGAGGGGCGAGACATCCCAAACATCCTGGACCAGCCTCAT
 TATCTGGTTTGGAGACATGAACCTTCGGATCGAGGACTTTGGGTTGCACTTTGTTCCGGAATCCATTA
 AATCGGTGCTACGGTGGCTGTGGGAGAAGGACCAGCTCAGCATTGCCAAGAAACATGACCCGCTGCTCC
 GGGAGTCCAGGAGGGCCGCTACTCTTCCCGCCACCTACAAGTTTGATAGGAACTCCAACGACTATGA
 CACCAGTGAGAAAAACGCAAGCCTGCATGGACCGATCGCATCCTGTGGAGGCTGAAGCGGCAGCCCTGT
 GCTGGCCCCGACACTCCCATACCGCCGGCGTCACACTTCTCCTGTCTCTGAGGGCTACAGCAGCCACA
 TGACGTACGGCATCAGCGACCACAAGCCTGTCTCCGGCACGTTGACTTGGAGCTGAAGCCATTGGTGTCT
 TGCTCCGCTGATCGTCTGATGCCCGAGGACCTGTGGACCGTGGAAAATGACATGATGGTCAGCTACTCT
 TCAACCTCGGACTTCCCCAGCAGCCGTTGGGACTGGATTGGACTGTACAAGGTGGGGCTGCGGGACGTTA
 ATGACTACGTGTCTATGCCTGGTTCGGGACAGCAAGGTCTCCTGCAGCGACAACCTGAACCGGTTTA
 CATCGACATCAGCAATATCCCTACCACTGAAGATGAGTTTCTCCTCTGTTACTACAGCAACAGTCTGCGT
 TCTGTGGTGGGATAAGCAGACCCTCCAGATCCCGCCTGGCTCCTTGGGGAGGACCCACTGGGTGAAG
 CACAGCCACAGATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227852 representing NM_001135642
 Red=Cloning site Green=Tags(s)

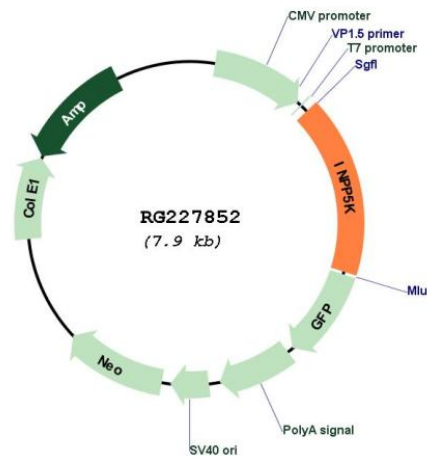
MSSRKLSGPKGRRLSIHVVTWNVASAPPLDLSDLLQLNRRNLNLDIYVIGLQELNSGIIISLLSDAAFND
 SWSSFLMDVLSPLSFIKVSVMQGIILLVFAKYQHLPYIQLSTKSTPTGLFGYWGNGGVNICKLYG
 YYVSIINCHLPPHISNNYQRLEHFDRIEMQNCERDIPNILDHDLIIWFGDMNFRIEDFGLHFVRESIK
 NRCYGGWLEKQQLSIKKHDPDLLREFQEGRLFPPTYKFDRNSNDYDTSEKKRKPAWTDRILWRLKRQPC
 AGPDTPIPPASHFSLSLRGYSSHMTYGISDHKPVSGTFDLELKLPLVSAPLIVLMPEDLWTVENDMMVSY
 STSDFPSSPDWIGLYKVGRLDNDYVSYAWVGDVSKVSCSDNLNQYVIDISNIPTTEDEFLLCYYSNSLR
 SVVGISRPFQIPPGSLREDPLGEAQPQI

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001135642

ORF Size: 1116 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:	<ol style="list-style-type: none">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:	<u>NM_001135642.1</u> , <u>NP_001129114.1</u>
RefSeq Size:	3391 bp
RefSeq ORF:	1119 bp
Locus ID:	51763
UniProt ID:	<u>Q9BT40</u>
Cytogenetics:	17p13.3
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Inositol phosphate metabolism, Insulin signaling pathway, Metabolic pathways, Phosphatidylinositol signaling system
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]