

Product datasheet for **MG209731**

Inpp5e (NM_033134) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5e (NM_033134) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Inpp5e
Synonyms:	72kDa; 1200002L24Rik; mKIAA0123
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209731 representing NM_033134
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCATCCAAGTCAGCTTGCTGCGTCACACTGAGGCACCTGGCAGCTAGAAGGCAGAATGCTCCAGG
 GACAGCCTCCGAACACGAAAAGAAGCTCATCCCAACACCAGGCTTCTTACCAGCCTCTGACTCTCAGGG
 TTCAGAGACAAAACCCATGCCTCCTTTCAGCATTCCAGCAAAAACAAGCAACCAGAACCCACAACTAAG
 GCAAACTCATCACCCACAGCCACCCATTAGACCCAAGTTGGAGCGAACCCCTGTCCCTCGATGACAAGG
 GCTGGAGAAGGAGGCGTTCCGGGGTAGTCAGGAGGATCTGACTGTCCAGAATGGGGCCAGTCCCTGCAG
 GGGCTCCTTGAAGACTCAGTAGCCAGTCCCCTGCCTACAGCCGTCCCCTGCCCTGCCTCAGCACATCC
 TTGCAGGAGATACCTAAGTCCCAGGGCCACAGGCAGTGAGGGAGGGAGCCCATCCTTGTGGAGTGACT
 GTCTTTCTGGAATGATCAGCACCTCCTTGACCTCCTGCACAGAGATGCTGCCTCAGGTGGGCCCCCTC
 CAGGTTGGCAAGTTTGCATGCCTCACACACACCACCAGCTATGGACCTCAGCATAGCCTCCAGCTCCCTG
 AGAACAGCAAAACAGGTTGACCCCGAGCACACGGACTACAAGCTCCGCATGCAGACCAGACTGGTACAGG
 CCCACAGCAACCTGGGCCCTAGCAGACCCCGGAGCCCTTGGCTGGTGACGATCACTCCATTCACTCAGC
 CAGATCTTTCAGCCTTCTGGCCCCATCCGCACCAAGGACATCAGAAGCAGGAGCTATCTGGAGGGAAGT
 CTTCTGGCCAGTGGGGCCCTGCTAGGAGCAGAAGAGCTGGCCAGGTACTTCCAGACCGAAAACATGGCTC
 TCTTCTGGTACCTGGAACATGCAGGGCCAGAAGGAGCTCCAGCGAGCCTGGATGAGTTTCTGTCTCC
 CACCGAGGCTGACTACACTCAGGACCTGTATGTCATTGGAATTCAGGAGGGCTGCTCTGACAGCGGGAG
 TGGGAGACACGCTGCAGGAGACTGGGCCCTCAGTATGTAAGTCTGCTCATCAGCAGCACATGGGGTCC
 TGTACATGTCCCTGTTTATCCGTAGGACCTCATCTGGTCTGCTCAGAGGTCGAGTACCCAGTAAC
 TACACGCATCGTGTCTCAGATCAAGACCAAGGGGCCCTGGGCGTCAGCTTACCTTTTTTGGCACCTCC
 TTCTTTCATCACATCTCACTTCACTCTGGAGATGGGAAGGTAGCAGAGCGGCTACTGGACTACAGCA
 GAACCATCCAAGCCCTAGCCCTGCCCGGAATGTGCCAGACACAAATCCCTACCGCTCTAGTGCAGGGGA
 TGTCACTACCCGTTTGTAGAGTCTTCTGGTTTGGGACTTCAACTCCGCCTGAGTGGTGACGAGTG
 GCTGTGGAGGCCCTTCTGAAGCAGAAACCTGAGGTGGATGTGCTGGCTCTCTCCAACACGACCAGCTCA
 CCCGGGAGATGAAGAAAGGTTCCATCTTCAAGGGCTTTGAGGAGGCAGAGATTCACTTTCTTCCATCCTA
 CAAGTTTGACATTGGGAAGGACACCTACGACAGCACCTCAAGCAAGGACACCCCTCTACACAGACCGA
 GTCCTATACAAAAGCCGTACAAGGGTGACATCTGTCCATGAAGTATTCCTTGTCTGGGATCAAGA
 CTTCAGACCACCTCCTGTGTATGGCTTGTCCAGGTGAAAGTGAGGCCAGGACGAGACAACATCCATT
 AGCTGCCGGCAAGTTTGACCGAGAATTGTAAGTATAGGAATTAAGGGCGGATTCAAAGGAGATTTCAG
 AGACAGGAAGCACTGAAGAGCCAGAGCTCCAGTGCAGTTTGCACCGTGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209731 representing NM_033134
 Red=Cloning site Green=Tags(s)

MPSKSACLRHTAPGQLEGRMLQGQPPNTEKLIPTPGFLPASDSQGSETNPMPPFSIPAKTSNQNPNQTK
 ANLITPQPPIRPKLERTLSLDDKWRRRFRGSQEDLTVQNGASPCRGSLQDSVAQSPAYSRLPCLSTS
 LQEIPKSRRTGSEGGSPSLWSDCLSGMISTSLDLLHRDAASGGPPSRLASLHASHTPPAMDLSIASSL
 RTANKVDPEHTDYKLRMQTRLVRAHSNLGSPRPSPLAGDDHSIHSARSFSLAPIRTKDIRSRSYLEGS
 LLASGALLGAEELARYFPDRNMALFVATWNMQGQKELPASLDEFLLPTEADYTQDLYVIGIQEGCSDRRE
 WETRLQETLGPQYVLLSSAAHGVLVYMSLFIRRDLIWFCEVEYSTVTTRIVSQIKTKGALGVSFTFFGTS
 FLFITSHFTSGDGKVAERLLDYSRTIQALALPRNVPTNPNYRSSAGDVTRFDEVFVWGFDFNRLSGGRV
 AVEAFLKQKPEVDVLLALQHDQLTREMKGSI FRGFEEAEIHFLPSYKFDIGKDYDSTSKQRTPSYTD
 VLYKSRHKGDIKPMKYSSCPGIKTS DHRPVYGLFQVKVRPGRDNIPLAAGKFDRELYLIGIKRRISEIKI
 RQEALKSQSSSAVCTVS

TRTRPLE - GFP Tag - V

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:	NM_033134.3
RefSeq Size:	4155 bp
RefSeq ORF:	1944 bp
Locus ID:	64436
UniProt ID:	Q9J111
Cytogenetics:	2 A3
Gene Summary:	Phosphatidylinositol (PtdIns) phosphatase that specifically hydrolyzes the 5-phosphate of phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P3), phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) and phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). Specific for lipid substrates, inactive towards water soluble inositol phosphates. Specific for lipid substrates, inactive towards water soluble inositol phosphates (By similarity) (PubMed:10806194). Plays an essential role in the primary cilium by controlling ciliary growth and phosphoinositide 3-kinase (PI3K) signaling and stability (PubMed:19668215). [UniProtKB/Swiss-Prot Function]