

Product datasheet for **RG214716**

INPPL1 (NM_001567) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: INPPL1 (NM_001567) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: INPPL1
Synonyms: OPSMD; SHIP2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG214716 representing NM_001567
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCGGCCCTGCGGGGCGCCGGGCCCGGGGGCGCCCTGGGCAGCCAGGCCCCCTCCTGGTACCACC
GCGACCTGAGCCGGGCGGCCGCGGAGGAGCTGCTGGCCCGGGCGGGCCGATGGCAGCTTCTGGTCCG
AGACAGCGAGAGCGTGGCGGGGCTTCGCGCTCTGCGTCTGTATCAGAAGCATGTGCACACGTATCGC
ATTCTGCCTGATGGAGAAGATTTCTTGGCTGTGCAGACCTCGCAGGTGTGCCTGTGCGCCGCTCCAGA
CCCTGGGTGAGCTCATCGCCTGTACGCCAGCCCAACCAGGGCCTTGTGTGCGCCCTGCTTCTCTGT
AGAGGGTGAGCGAGAGCCGGACCCACCGATGACCGGATGCCTCAGATGGGGAGGATGAGAAGCCCCG
CTGCCCCCGCCTCTGGCTCCACCAGCATTTCGCCCCACTGGGCCAGCAGTCCCCTGCCAGCTCCTG
AGACTCCACAGCTCCAGCTGCTGAGAGTGTCCCAATGGGCTGAGCACCGTCTCGCACGACTACCTGAA
AGGCAGCTATGGGCTGGACCTGGAAGCTGTGAGGGTGGAGCCAGCCACCTGCCACCTCACCCGTACC
CTCGCTACCTCATGCCGGAGGCTGCACAGTGAAGTGGACAAGTCTGTGAGGCTGGAGATCCTGTCCA
AGGTGTTTGACCAGCAGAGCTCGCCATGGTGACCCGCTTTTGCAGCAGCAGAACCTGCCACAGACAGG
GGAGCAGGAAGTAGAGAGCCTGGTGTGAAGCTGTCAGTGCTAAAGGACTTCTGTGAGGATCCAGAAG
AAGCCCTGAAGCCCTACAGGACATGAGCTCCACAGCACCCAGCTCCGACGATCCACAGTAAAG
CCAAGACCATCCCGTGCAGGCCTTTGAGGTGAAGCTAGATGTGACCCCTGGGTGACCTGACCAAGATTGG
GAAGTACAGAAGTTCACGCTGAGCGTGGATGTGGAGGTGGGCGGCTGGTGTGCTGCGGAGACAGCGG
GACTCCAGGAGGACTGGACCACCTTACGCACGACCGCATCCGCCAGCTCATTAAAGTCCAGCGTGTCC
AGAACAAGCTGGGTGTTGTGTTGAGAAGGAGAAGGACCGGACTCAGCGCAAGGACTTATCTTTGTCAG
TGCCCGGAAGCGGGAGGCCTTCTGCCAGCTGTTGAGCTCATGAAGAACAAGCACTCCAAGCAGGACGAG
CCCACATGATCTCAGTCTTATAGGCACCTGGAACATGGGAAGTGTACCACCTCAAAAAACGTGACAT
CCTGGTTCACATCGAAGGTCTGGGAAGACCTGGACGAGGTCACAGTGACCATACCCATGACATCTA
TGCTTTGGGACCCAGGAGAAGTCAAGTGGGCGACCGGAGTGGCTGGACCTACTGCGGGGGCCTCAAG



GAGCTTACGGATCTGGATTACCGCCGATTGCCATGCAATCACTGTGGAATATCAAGGTGGCAGTGCTGG
TCAAGCCAGAGCAGGAGAACCGTATCAGCCATGTCAGTACGTCCAGTGTGAAGACTGGCATCGCCAAAC
CCTGGGAAACAAGGGGGCTGTGGGCGTCTCTTCATGTTAATGGCACCTCATTGGCTTTGTGAATTGT
CACCTCACCTCGGAAATGAGAAGACGGCTCGGAGGAACCAAACTACTTGGACATCCTGCGGCTGCTCT
CGCTGGGCGACCGGCAGCTCAATGCCTTGACATCTCTCTGCGTTTCACACACCTCTTCTGGTTTGGGGA
CCTCAACTACCGCTGGACATGGATATCCAGGAGATCCTGAACTACATCAGCAGGAAAGAGTTTGGAGCC
CTCCTCAGGGTGGACCAGCTCAACCTGGAGCGGGAGAAGCACAAGTCTTCTTCGATTTCAGTGAGGAGG
AGATCTCCTTCCACCCACCTACCGTATGAGCGGGTTCCCGGACACATATGCCTGGCACAAGCAGAA
GCCAACTGGGGTCCGGACCAATGTGCCCTCATGGTGTGACCGGATTCTGTGGAATCCTACCCTGAACT
CACATCATCTGCAATTCTTATGGTTGCACTGATGACATCGTCACCAGCGACCATTCCCCGTGTTTGGGA
CATTTGAGTTGGAGTTACCTCCAGTTCATCTCCAAGAAAGGGCTCTCAAAGACTTCAGACCAGGCCTA
CATTGAGTTTGGAGCATCGAGGCCATTGTGAAGACAGCCAGCCGACCAAGTCTTTCATCGAGTTCTAC
TCTACCTGCTGGAGGAATACAAGAAGAGCTTTGAGAATGATGCCAGAGCAGTGACAACATCAACTTCC
TCAAAGTGCAGTGGTCTTACGCCAGCTGCCACGCTCAAACCAATTCTGGCTGATATCGAGTACCTGCA
GGACCAGCACCTCTGCTCACAGTCAAGTCCATGGATGGCTATGAATCCTATGGGGAGTGTGTGGTTGCA
CTCAAATCCATGATCGGCAGCACGGCCAAACAGTTCCTGACCTTCTATCCCACCGTGGCGAGGAGACAG
GCAATATCAGAGGCTCCATGAAGGTGCGGGTGCCACGGAGCGCCTGGGACCCGTGAGCGGCTCTACGA
GTGGATCAGCATTGATAAGGATGAGGCAGGAGCAAAGAGCAAAGCCCCCTCTGTGTCCCAGGGAGCCAG
GAGCCCAGGTCAGGGAGCCGCAAGCCAGCCTTCACAGAGGCTCCTGCCCGCTCTCCAGGTTATTTGAAG
AACCAGAGAAACCGCCACCAACGGGGAGGCCCCAGCCCCACCCGAGCAGTCCCCGGGAGGAGCCCTT
GACCCCAAGTTGAAGCCAGAGGGAGCTCCTGAACCAGAAGGGGTGGCGGCCCCCACCAGAAGCAGC
TTCAATAACCCCTGCCTACTACGTCCTTGAAGGGTCCCGCACCAGCTGCTGCCCCGGAGCCACCCTCGC
CTGCCAGGGCCCTGTCCATCTGCCACCAAGAACAAGTGGCCATTACAGTGCCTGCTCCACAGTTGG
GCACCACCGGCACCCTCGTGTGGGAGAGGGGAGTTCTTCAGATGAGGAGTCTGGAGGCACACTGCCCCCT
CCAGACTTTCACCTCCACCCTGCGGACTCAGCCATCTTCTGCCCCCGCCTGGATCCTTTACCAG
GGCCAGTGGTCCGGGGCCGTGGTGGGGTGGAGCCCGTGCCACCACCTCCCAAGGCCATCCAAGGCC
TCCACTGCCCCAGGCCCTCACCAGCCAGCACTTCTGGGGAAAGTGCCAGTGGGGATGACCGGTCC
TGCTCGGTGCTGCAGATGGCCAAGACGCTGAGCGAGGTGGACTATGCCCTGCTGGGCTGCACGCTCAG
CGCTCCTCCAGGCCCTGGAGCTGCAGCCCCCGGGACTGCCCTCGGACTATGGCCGGCCCTCAG
CTTCCCTCCACCCGCATCCGGGAGAGCATCCAGGAAGACCTGGCAGAGGAGGCTCCGTGCCTGCAGGGC
GGGCGGGCCAGCGGGCTGGGCGAGGCAGGCATGAGTGCCTGGCTGCGGGCCATCGGCTTGGAGCGCTATG
AGGAGGGCCTGGTGCATAATGGCTGGGACGACCTGGAGTTTCTCAGTGACATCACCGAGGAGGACTTGA
GGAGGCTGGGGTGCAGGACCCGGCTCACAGCGCCTCCTTCTGGACACCTGCAGCTCAGCAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG214716 representing NM_001567
Red=Cloning site Green=Tags(s)

```
MASACGAPGPGGALGSQAPSWYHRDL SRAAAEELLARAGRDGSFLVRDSESVAGAFALCVLYQKHVHTYR
ILPDGEDFLAVQTSQGVVRRFQTLGEL IGLYAQPNQGLVCAALLPVEGEREPDPPDDRASDGEDEKPP
LPPRSGSTISAPTGPSSPLPAPETPTAPAAESAPNGLSTVSHDYLKGSYGLDLEAVRGGASHLPHLTRT
LATSCRRLHSEVDKVL SGLEILSKVFDQQSSPMVTRLLQQQNL PQTGEQELESVLKLSVLKDFLSGIQK
KALKALQDMSSTAPPAPQPSTRKAKTIPVQAFEVKLDVTLGDLTKIGKSQKFTLSVDVEGGRLVLLRRQR
DSQEDWTTFTHDRIRQLIKSQRVQNKLG VVFEKEKDRTQRKDFIFVSARKREAF CQLLQLMKNKHSKQDE
PDMISVFIGTWNMGSVPPPKNVTSWFTSKL GKTLDVTVTIPHDIVYVGTQENSVDREWLDLLRGGLK
ELTDLDYRPIAMQSLWNIKVAVLVKPEHENRISHVSTSSVKTGIANTLGNKGAVGV SFMFNSTFGFVNC
HLTSGNEKTARRNQYLDILRLLSLGDRQLNAFDISLRFTHLFWFGDLNYRLDMDIQEILNYISRKEFEP
LLRVDQLNLEREKHKVFLRFSEEEISFPPTYRYERGRDITYAWHKQKPTGVRTNVP SWCDRILWKSYPET
HIICNSYGCTDDIVTSDHSPVFGTFE VGVTSQFISKKGLSKTSDQAYIEFESIEAIVKTASRTKFFIEFY
STCLEEYKKS FENDAQSSDNINFLKVQWSSRQLPTLKPILADIEYLQDQHLLLVKSM DGYESYGECVVA
LKSMIGSTAQQFLTFLSHRGEETGNIRGSMKVRVPTERLGTRELYEWISIDKDEAGAKSKAPSVSRGSQ
EPRSGSRKPAFTEASCPLSRLFEEPEKPPPTGRPPAPPRAAPREEPLTPRLKPEG APEPEGVAAPPPKNS
FNNPAYVYVLEGVPHQLLPEPPSPARAPVPSATKNKVAITVPAPQLGHRHPRVGE GSSSDDEESGGLTLP
PDFPPPLPDSAIFLPPSLDPLPGPVVVRGGAEARGPPPKAHRPPLPPGSPASTFLGEV ASGDDRS
CSVLQMAKTLSEVDYAPAGPARSALLPGPLELQPPRGLPSDYGRPLSFP PPRIRESIQEDLAAEAPCLQG
GRASGLGEAGMSAWLRAIGLERYEEGLVHNGWDDLEFLSDITEEDLEEAGVQDP AHKRLLLDTLQLSK
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

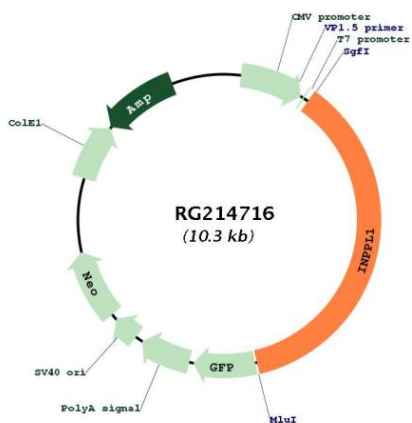


ACCN: NM_001567

ORF Size: 3774 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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_001567.4
RefSeq Size:	4737 bp
RefSeq ORF:	3777 bp
Locus ID:	3636
UniProt ID:	Q15357
Cytogenetics:	11q13.4
Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
Gene Summary:	<p>The protein encoded by this gene is an SH2-containing 5'-inositol phosphatase that is involved in the regulation of insulin function. The encoded protein also plays a role in the regulation of epidermal growth factor receptor turnover and actin remodelling. Additionally, this gene supports metastatic growth in breast cancer and is a valuable biomarker for breast cancer. [provided by RefSeq, Jan 2009]</p>

Product images:



Circular map for RG214716