

## Product datasheet for **SC109507**

### INPP5F (OCRL) (NM\_000276) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	INPP5F (OCRL) (NM_000276) Human Untagged Clone
Tag:	Tag Free
Symbol:	INPP5F
Synonyms:	Dent-2; DENT2; INPP5F; LOCR; NPHL2; OCRL-1; OCRL1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene ORF sequence for NM_000276 edited
ATGGAGCCGCGCTCCCGGTCCGGAGCCCAGCCGCTTGCCACTGTGCGAGGGTATGGAGATG
AAGGGTCTCTCCGGGAGCCCTGCGCCCTGACCCTAGCCCAGAGGAACGGGCAATATGAG
TTAATAATCCAGTTGCATGAGAAGGAACAGCATGTTCAAGATATCATTCTATAAATAGC
CACTTCAGATGTGTTCAAGAAGCAGAAGAACTCTTTGATTGACATAGCTTCTAACAGT
GGCTGCAAAATTCGGGTTCAGGGGACTGGATCAGAGAGCGCCGCTTTGAAATCCCTGAT
GAGGAACACTGTTTGAAGTTCCTCTCAGCTGTCCCTTGTGCTCAGAAAGCTCAGTCACAG
CTTCTTGTTCCAGAGCAAAGGACTCATCTAGCTGGTACCAGAAATTAGACACTAAGGAC
AAACCTTCTGTTTTTTCAGGGCTTCTTGATTGAAGACAATTTTTCTTCTATGAATTTG
GACAAGAAAATAAATTCACAAAATCAGCCTACTGGGATTCATCGGGAACCCACCTCCA
CCCTTTTCAGTGAATAAATGCTTCCACGTGAAAAAGAAGCTTCTAACAAGGAGCAGCCC
AAAGTGACCAACACCATGCGGAAGCTCTTTGTACCAAATACCAATCTGGGCAGCGGGAG
GGTCTCATCAAACATATCCTGGCAAAGCGAGAGAAAGAATATGTCAACATTCAGACTTTC
AGATTTTTGTTGGAAC TTGGAATGTGAATGGCCAGTCTCCAGATAGCGGTTAGAACCT
TGCTGAACTGTGATCCCAATCCTCTGATATCTACTGCATTGGATTCCAAGAATGGAC
TTGAGCACAGAAGCCTTCTTCTACTTTGAATCTGTGAAGGAACAAGAATGGTCCATGGCT
GTAGAGAGAGGTTTGATTCCAAGCCAAGTATAAGAAAGTTCAACTGGTGCGCCTTGT
GGGATGATGCTTCTTATATTTGCCAGAAAGGATCAGTGTGATACATTCTGTGATATTGCT
ACAGAAACAGTTGGAAC TTGGAATCATGGGGAAAATGGGAAACAAAGGTGGGGTAGCTGTG
AGATTTGTATTTCAACACCACCTTTTGCATTGTCAATCCCATCTGGCTGCACACGTG
GAGGACTTTGAGAGAAGGAATCAAGATTATAAGGACATTTGTGCGAGAATGAGTTTTGTG
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AAGAAAGACCTTCAGAGACTCTTGAAATTCGACCAGCTAAATATTCAGCGCACACAGAAA
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TCTAAAACAGACCGGTGGGATTCAGTGGGAAATGCCGGTTCCAGCCTGGTGTGACCGA
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ACCAGCGACCACAAGCCTGTTAGCGCCCTTCCATATTTGGGTGAAAGTTGTGGATGAA
CGAAGGTACCGGAAAGTCTTTGAAGATAGTGTACGCATCATGGACAGAATGGAAAATGAC
TTCCTTCTTCTTAGAACTCAGCAGGAGGGAGTTTGTGTTTAAAATGTGAAGTTTCGG
CAACTACAAAAGGAGAAGTTCCAGATCAGCAACAATGGACAGGTTCCCTGCCATTTTTCT
TTCATCCCTAAACTTAATGACAGCCAGTACTGCAAGCCATGGCTTCGGGCTGAACCTTTT
GAGGGCTACTTGGAGCCAAATGAGACAGTGGACATTTCTTCTGATGTGTATGTCAGCAAA
GACTCTGTAACCATCCTGAACTCGGGAGAAGATAAGATTGAAGATATTCTCGTCTTTCAC
CTGGATCGAGGCAAGATTACTTCTTACTATCAGTGGAAATTACCTCCCAAGTTGTTTT
GGCACATCCTTAGAGGCTCTGTGCCGTATGAAAAGACCAATCCGAGAAGTTCTGTTACC
AAACTCATAGACTTGAAGAAGACAGCTTCTAGAAAAGGAGAAATCCCTTCTGCAAATG
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CTAGTAGATCACCTATTCAAATACGCCTGTACCAGGAGGACCTGTTCCAGACCCCTGGA
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CCTGGCAGCAACCACTCTGTGGCTGAAGCACTGCTCATTTTTCTTGAAGCCCTGCCAGAG
CCAGTCATCTGTTACGAGCTGTATCAGCGATGTCTTACTCTGCTTATGATCCCCGGATC
TGCCGACAGGTGATCTCCAGCTTCCGAGATGCCATAGAAATGTTTTCCGTTACTTGATG
GCATTCCTTCGAGAACTTTAAAATTTCTCTGAATACAATAGCGTCAATGCCAACATGATC
GCTACTCTTCTACTAGTCTTCTCTGAGGCTCCACCAACCTTATGGCAAGACAGACT
CCAAGTGACCGCCAGCGTCTATTAGTTCCTTCTGGGCTTTCTGCTTGGGAGCGAAGAA
GACTAA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000276 unedited  
 CGAGGCCGCTCCCGGCTCCCGGCCCGCGCGCGGAGCTGTTCCCTCAAACGACA  
 CGCAGCCGAGGTGGGTGGGTGTGGGGACGCGGGAGCCAGTGTCTGCGGATCGGCCCGCAG  
 TCCGCTGTCTGCTGAGCCCGGAGGCCGCTGGATGGAGCCGCGCTCCCGGTCCGAGCC  
 CAGCCGCTTGCCACTGTCGAGGGTATGGAGATGAAGGGTCTCTCCGGGAGCCCTGCGCC  
 CTGACCCTAGCCAGAGGAACGGCAATATGAGTTAATAATCCAGTTGCATGAGAAGGAA  
 CAGCATGTTCAAGATATCATTCCCTATAAATAGCCACTTCAGATGTGTTCAAGAAGCAGAA  
 GAAACTCTTTTGATTGACATAGCTTCTAACAGTGGCTGCAAAATTCGGGTTTCAGGGGGAC  
 TGGATCAGAGAGCGCGCTTTGAAATCCCTGATGAGGAACACTGTTTGAAGTTCCCTCTC  
 AGCTGTCTTGCTGCTCAGAAAGCTCAGTCACAGCTTCTTGTTCAGAGCANAAGGACTC  
 ATCTAGCTGGTACCAGAAATAGACACTAAGGACANACCTTCTGTTTTTTCAGGGCTTCT  
 TGGATTTGAAGACAATTTTTCTTCTATGAATTTGGACAAGAAAATAAATTCACAAAATCA  
 GCCTACTGGGATTCATCGGAACCCACCTCCCACCCTTTTCAGTGAATTAATGACCT  
 TCACCGTAAAAAGAACTTCTAACAAAGAGCAGCCCAAGTGACCACCACCTGCCGAAG  
 CTCNTGTACCAATCCCAATCTGGGCAGCGGAAGTCCCATTAACCTATTCTGGCCAAG  
 CGAGAAAAGATTTGTCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000276 unedited  
 ACTATGGACGCGCCGCAATCTAGAATTTATTCANAAAAAATTTGCAATAAATTATAATA  
 AAAAAGAGACACGAAATATAGAATCCCACTAGCAGCTTTGCTTAGTGATCAAGACGTTTT  
 TGGGAAATATAACAAACAATTACAGAATAAGAAAACAGTGAAGGGAGACTAATGCAATG  
 TCACCACATGGATTTGAACCATTTCTTCCCTAAGACAGCAGGTGCAGAGTCTTCCCTAC  
 CAGCTGAATCCGAAATCCTTACTTCAGAGCAGCTACAAATTAGTACCTTAGAGGACTTGG  
 CAATTACAGGTTGGGGTCTGGAATAGCCATGGTAGGGAAGCAGATTTCTTCTGTCTGGG  
 TCTACATCTTGTCTCCTTACCTAGAGATTGTCTAAAACCTCTCAACTCTGTATATGTTCC  
 AGGATGAGCTGAAAAAGGTCGAGGCAGTACACCAACTTAGTGTTTTGATCTGATGTAGA  
 AAGAGATAGGATACTGCATACGTGCAGCACAGAGCCTCCACTAACCACACCCTTGATCAC  
 CCAAAGATCCCAGGTCAGTGATATGCTAGAAAAACAAGCCAGGAAAGGTATTTCCCTGTG  
 GTATGACCCTACCCAGTGTCTATCATCTGCCTTTTTTGTGATCACTTTCTGGCCTTGC  
 GGAGATGACAAACCTGTTCTGCCCTCAGTCTCCATTAAGTTCAACACCTAGCCCC  
 CTGACCTATCATACCTNCAGATCTGTGGCACCAGTAACCTTGACTCCTATTGCTTTAACTC  
 TCAATCACGAANAGTNTTACCATATTGCANAATACGTACCTTCCCCCACCACCAA  
 GAACAGGAGAAATCACTGTGGCGCTTGGAAATGCTAAAATGCACAGAGTCATGCCAGAT  
 GTACATAAGCCTGTACGTAGCTCCTGCAATCATGAAACAGGCAGGTTGGTGTACAAAAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000276

**Insert Size:**

5130 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000276.3</a> , <a href="#">NP_000267.2</a>
<b>RefSeq Size:</b>	5165 bp
<b>RefSeq ORF:</b>	2706 bp
<b>Locus ID:</b>	4952
<b>UniProt ID:</b>	<a href="#">Q01968</a>
<b>Cytogenetics:</b>	Xq26.1
<b>Domains:</b>	RhoGAP, IPPc, Exo_endo_phos
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
<b>Gene Summary:</b>	<p>This gene encodes an inositol polyphosphate 5-phosphatase. This protein is involved in regulating membrane trafficking and is located in numerous subcellular locations including the trans-Golgi network, clathrin-coated vesicles and, endosomes and the plasma membrane. This protein may also play a role in primary cilium formation. Mutations in this gene cause oculocerebrorenal syndrome of Lowe and also Dent disease. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (a) encodes isoform (a).</p>