

## Product datasheet for **SC119145**

### INPP5F (OCRL) (NM\_001587) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	INPP5F (OCRL) (NM_001587) 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_001587 edited
ATGGAGCCGCGCTCCCGGTCGGAGCCCAGCCGCTTGCCACTGTGCGAGGGTATGGAGATG
AAGGGTCTCTCCGGGAGCCCTGCGCCCTGACCCTAGCCCAGAGGAACGGGCAATATGAG
TTAATAATCCAGTTGCATGAGAAGGAACAGCATGTTCAAGATATCATTCTATAAATAGC
CACTTCAGATGTGTTCAAGAAGCAGAAGAACTCTTTGATTGACATAGCTTCTAACAGT
GGCTGCAAAATTCGGGTTCAGGGGACTGGATCAGAGAGCGCCGCTTTGAAATCCCTGAT
GAGGAACACTGTTTGAAGTTCCTCTCAGCTGTCCCTTGCTGCTCAGAAAGCTCAGTCACAG
CTTCTTGTTCCAGAGCAAAGGACTCATCTAGCTGGTACCAGAAATTAGACACTAAGGAC
AAACCTTCTGTTTTTTCAGGGCTTCTTGATTGAAGACAATTTTTCTTCTATGAATTTG
GACAAGAAAATAAATTCACAAAATCAGCCTACTGGGATTCATCGGGAACCCACCTCCA
CCCTTTTCAGTGAATAAATGCTTCCACGTGAAAAAGAAGCTTCTAACAAGGAGCAGCCC
AAAGTGACCAACACCATGCGGAAGCTCTTTGTACCAAATACCAATCTGGGCAGCGGGAG
GGTCTCATCAAACATATCCTGGCAAAGCGAGAGAAAGAATATGTCAACATTCAGACTTTC
AGATTTTTGTTGGAAC TTGGAATGTGAATGGCCAGTCTCCAGATAGCGGGTTAGAACCT
TGCTGAACTGTGATCCCAATCCTCTGATATCTACTGCATTGGATTCCAAGAAGTGGAC
TTGAGCACAGAAGCCTTCTTCTACTTTGAATCTGTGAAGGAACAAGAATGGTCCATGGCT
GTAGAGAGAGGTTTGATTCCAAAGCCAAGTATAAGAAAGTTCAACTGGTGCGCCTTGT
GGGATGATGCTTCTTATATTTGCCAGAAAGGATCAGTGTGATACATTCTGTGATATTGCT
ACAGAAACAGTTGGAAC TTGGAATCATGGGGAAAATGGGAAACAAAGGTGGGGTAGCTGTG
AGATTTGTATTTCAACACACCACCTTTTGCATTGTCAATCCCATCTGGCTGCACACGTG
GAGGACTTTGAGAGAAGGAATCAAGATTATAAGGACATTTGTGCGAGAATGAGTTTTGTG
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AAGAAAGACCTTCAGAGACTCTTGAAATTCGACCAGCTAAATATTAGCGGCACACAGAAA
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TCTAAAACAGACCGGTGGGATTCAGTGGGAAATGCCGGTTCCAGCCTGGTGTGACCGA
ATTCTTTGGAGAGGAACAAATGTTAATCAGCTTAATTATCGGAGTCACATGGAAC TGAAA
ACCAGCGACCACAAGCCTGTTAGCGCCCTTCCATATTTGGGTGAAAGTTGTGGATGAA
CGAAGGTACCGGAAAGTCTTTGAAGATAGTGTACGCATCATGGACAGAATGGAAAATGAC
TTCCTTCTTCTTAGAACTCAGCAGGAGGGAGTTTGTGTTTAAAATGTGAAGTTTCGG
CAACTACAAAAGGAGAAGTTCCAGATCAGCAACAATGGACAGGTTCCCTGCCATTTTTCT
TTCATCCCTAAACTTAATGACAGCCAGTACTGCAAGCCATGGCTTCGGGCTGAACCTTTT
GAGGGCTACTTGGAGCCAAATGAGACAGTGGACATTTCTCTTGATGTGTATGTCAGCAAA
GACTCTGTAACCATCCTGAACTCGGGAGAAGATAAGATTGAAGATATTCTCGTCCTTAC
CTGGATCGAGGCAAGATTACTTCTTGACTATCAGTGGAAATTACCTCCCAAGTTGTTTT
GGCACATCCTTAGAGGCTCTGTGCCGATGAAAAGACCAATCCGAGAAGTTCTGTTACC
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GAGAGACCCCTTCAGGTTCCCAAGGAGATCTGGCTTCTAGTAGATCACCTATTCAAATAC
GCCTGTCAACAGGAGGACCTGTTCCAGACCCCTGGAATGCAGGAAGAGCTCCAGCAGATC
ATTGATTGTCTGGATACCAGCATTCTGAGACAATCCCTGGCAGCAACCACTCTGTGGCT
GAAGCACTGCTCATTTTTCTTGAAGCCCTGCCAGAGCCAGTCATCTGTTACGAGCTGTAT
CAGCGATGCTTACTCTGCTTATGATCCCGGATCTGCCGACAGGTGATCTCCAGCTT
CCGAGATGCCATAGAAATGTTTTCCGTTACTTGTGATGGCATTCTTCGAGAACTCTAAAA
TTCTCTGAATAACAATAGCGTCAATGCCAACATGATCGCTACTCTTCTACTAGTCTTCTC
CTGAGGCCCTCCACCAACCTTATGGCAAGACAGACTCCAAGTGACCGCCAGCGTGTCTATT
CAGTTCCTTCTGGGCTTCTGCTGGGAGCGAAGAAGACTAA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001587 unedited  
 CATTATGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGCGCAGCCGAGGT  
 GGGTGGGTGTGGGGACGCGGGGAGCCAGTGTCTGCGGATCGGCCCGCAGTCCGCTGTCTGT  
 CTGAGCCCGGAGGCCGCTGGATGGAGCCGCGCTCCCGGTGGAGCCAGCCGCTTGCC  
 ACTGTGAGGGTATGGAGATGAAGGTCCTCTCCGGGAGCCCTGCGCCCTGACCCTAGCC  
 CAGAGGAACGGGCAATATGAGTTAATAATCCAGTTGCATGAGAAGGAACAGCATGTTCAA  
 GATATCATTCTATAAAATAGCCACTTCAGATGTGTTCAAGAAGCAGAAGAACTCTTTTG  
 ATTGACATAGCTTCTAACAGTGGCTGCAAAATTCGGGTTCAAGGGGACTGGATCAGAGAG  
 CGCCGCTTTGAAATCCCTGATGAGGAACACTGTTTGAAGTTCTCTCAGCTGTCTTGTCT  
 GCTCAGAAAGCTCAGTCACAGCTTCTTGTTCAGAGCAAAAGGACTCATCTAGCTGGTAC  
 CAGAAATTAGACACTAAGGACAAACCTTCTGTTTTTTCAGGGCTTCTTGGATTTGAAGAC  
 AATTTTTCTTCTATGAATTTGGACAAGAAAATAAATTCACAAAATCAGCCTACTGGGATT  
 CATCGGGAACCCCACTCCACCCTTTTTCAGTGAATAAAATGCTCCACGTGAAAAAGAA  
 GCTTCTAACAAAGGAGCAGCCAAAGTGACCAACACCATGCGGAAGCTCTTTGTACCAAT  
 ACCCAATCTGGGAGCGGGAGGGTCTCATCAAACATATCTGGCANAGCGAGAGAAAGAA  
 TATGTCAACATTGAGAACTTCAGATTTTNTGTTGGAAGTTGGNATGTGAATGCCAGTCT  
 CCAGATAGCGGGNTAGAACCTTGCNCTGACTGTGATCCCCATCTNCTGATATCTACTGC  
 ATNGGATTCCAGAACTGGNACTGAGCACAAAGN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001587 unedited  
 TTCNTTGNACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTAAACAC  
 AACATATATTTATTCAGAAAAAATTTGCAATAAATTATAATAAAAAAGAGACACGAAATA  
 TAGAATCCCACTAGCAGCTTTGCTTAGTGATCAAGACGTTTTTGGGAAATATAACAAACA  
 ATTACAGAATAAGAAAACAGTGAAGGGGAGACTAATGCAATGTCACCACATGGATTTGAA  
 CCATTTCTCCCTAAGACAGCAGGTGCAGAGTCTTCCCTACCAGCTGAATCCGAAATCC  
 TTACTTCAGAGCAGCTACAAATAGTACCTAAAGGACTTGGCAATTACAGGTTGGGGTG  
 CTGGAATAGCCATGGTAGGGAAGCAGATTTCTTCTGTCTGGGTCTACATCTTGTCTCCTC  
 TACCTAGAGATTGTCTAAACTCTCAACTCTGTATATGTTCCAGGATGAGCTGAAAAAG  
 GTCGAGGCAGTACACCACTTAGTGTGTTTGTATGTATGACAAAGAGATAGGATACTGCA  
 TACGTGCAGCACAGGCCTCCACTAACACACCCTTGATCACCCAAAGATCCCAGGTGCA  
 CGATATGCTAGAAAAACAAGCCAGGAAAGGTATTTTCTGTGGAATGACCCTACCCAGTG  
 CCTATCATCTGCCTCTTTTTGAGATCACTTTTTGGCCCTGCGGAGATGAACAACCTGCTCT  
 TGCCTAAGTCTTCCATTAAGTCCAACACTACCCCGACTTATATACCTGCAAATC  
 TGGGCCCACTCCTGGACTTAAAGCTTTACTTCTAAGAGCACGGGTGATCCCTCTGCCACA  
 TACCCCTTGCCCCCCTCCCGATCACATTGACTTCCCTGGTGGCCCTCCCTCCTCAA  
 TGCCACACGGTCCCGGATTACTTACGTCCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001587

**Insert Size:**

5120 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_001587.3</a> , <a href="#">NP_001578.2</a>
<b>RefSeq Size:</b>	5141 bp
<b>RefSeq ORF:</b>	2682 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 (b) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform b) that has a shorter C-terminus, compared to isoform 1.</p>