

## Product datasheet for **SC107237**

### **POLDIP1 (KCTD13) (NM\_178863) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	POLDIP1 (KCTD13) (NM_178863) Human Untagged Clone
Tag:	Tag Free
Symbol:	POLDIP1
Synonyms:	BACURD1; FKSG86; hBACURD1; PDIP1; POLDIP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_178863, the custom clone sequence may differ by one or more nucleotides

```
ATGTCGGCGGAGGCCTCGGGCCCGGCTGCCGCCGCGGCCCGTCCCTGGAAGCCCCAAGCCCTCGGGTC
TCGAGCCTGGCCCCGCCCTACGGTCTCAAGCCGCTGACCCGAACAGCAAATACGTGAAGCTGAACGT
GGGCGGCTCGTTGCACTACACCACGCTGCGCACCTCACGGGACAGGACACCATGCTCAAAGCCATGTT
AGCGGCCGCGTGGAGGTGCTGACCGATGCCGGAGGTTGGGTGCTGATTGACCGGAGCGGCCGTCACCTTTG
GTACAATCCTCAATTACCTGCGGGATGGGTCTGTGCCACTGCCGGAGAGTACGAGAGAACTGGGGGAGCT
GCTGGGCGAAGCAGCTACTACCTGGTGCAGGGCCTGATTGAGGACTGCCAGCTGGCGCTGCAGCAAAAA
AGGGAGACGCTGTCCCCGCTGTGCCTCATCCCCATGGTGACATCTCCCCGGGAGGAGCAGCAGCTCCTGG
CCAGCACCTCCAAGCCGTTGGTGAAGCTCCTGCACAACCGCAGTAACAACAAGTACTCCTACACCAGCAC
TTCAGATGACAACCTACTTAAGAACATCGAGCTGTTTCGACAAGCTGGCCCTGCGCTTCCACGGGCGGCTA
CTCTTCTCAAGGATGTCTGGGGGACGAGATCTGCTGCTGGTCTTTCTACGGGCAGGGCCGCAAAATCG
CCGAGGTGTGCTGCACCTCCATTGTCTATGCTACGGAGAAGAAGCAGACCAAGGTGGAATTTCCAGAGGC
CCGATCTTCGAGGAGACCCTGAACATCCTCATCTACGAGACTCCCCGGGGCCAGACCCAGCCCTCCTG
GAGGCCACAGGGGAGCAGCTGGAGCTGGTGGGCTGGCCCGGGGAGGATGAAGAGAACCAGAGAGCACC
GTGTCCGAGGATCCATGTCCGGGCCATATCACCCACGACGAGCGTCTCATGGCCAACAAATTGTCTT
CAAGGACTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_178863 unedited  
 GGAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCGCCGAGCGGTCT  
 GGCCAAAGGCTGGGGGCCGGCCGAGGGTCTTCGGGAGCAGGCCGAGGGCGCGGAGAGAT  
 CCTGGGATCGCCGTCCGCCGCTGCTACCCGGCATGTGGCGGAGGCCCTCGGGCCCCGGTG  
 CCGCCCGGCCCCCGTCCCTGGAAGCCCCAAGCCCTCGGGTCTCGAGCCTGGCCCCGCCG  
 CCTACGGTCTCAAGCCGCTGACCCCGAACAGCAAATACGTGAAGTGAACGTGGGCGGCT  
 CGTTGCACACACCACGCTGCGCACCCCTCACGGGACAGGACACCATGCTCAAAGCCATGT  
 TCAGCGGCCGCGTGGAGGTGCTGACCGATGCCGGAGGTTGGGTGCTGATTGACCGGAGCG  
 GCCGTCACTTTGGTACAATCCTCAATTACCTGCGGGATGGGTCTGTGCCACTGCCGGAGA  
 GTACGAGAGAAGTGGGGAGCTGCTGGGCGAAGCACGCTACTACCTGGTGCAGGGCCTGA  
 TTGAGGACTGCCAGTGGCGCTGCAGCAAAAAAGGGAGACGCTGTCCCCGCTGTGCCTCA  
 TCCCCATGGTGACATCTCCCCGGGAGGAGCAGCAGCTCCTGGCCAGCACCTNCAAGCCCG  
 TGGTGAAGCTCCTGCANACCCGAGTAACAACAAGTACTCTACACCAGCACTTCAGATG  
 ACAACCTACTTAAAGACATCGAGCTGTTTCGACAAGCTGGCCCTGCGCCTTACGGGCGGC  
 TACTCTTNTCAAGGATGCTCCTGGGGACGAGATCTGCTGCTGGTCTTTTACGGGCAGG  
 GCCGAAATCGCCCGAGTTGTGCTGCACCTCCATGNCTATGCTCNGANAATAAGCAGACA  
 TGATGGATTNACAGAGCCCGGATCTTGAGAGACCTGACTNCTCTACAGACTCCCGGGCC  
 ATACCANCTCTGAGCCCGNGGACACTGNACTGTGGGCTGCCGCGGGAGATGAAAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_178863 unedited  
 GAGTTTTTTTTTTTTGTTTTTGTCTCAACTTAACCTTATTTCAATAATTTAATAGAAA  
 ATTAATAATAATAATATGAAACAGACTGATAACGCTGAGCTGGGCAGGCCAGGCCA  
 GTCTAGTACAAAGTTAAGGAGGTAGGGAGGATGGTGGGGAGGAGGNTCNGACTACCTG  
 CCNGGCGCGTATGCTTCTTAAGTGTGCTGCTGTCTAGTTGGGCTCTCACTTTGGCAC  
 CGGCGCTGCACTACATTTATATTAATGGTATTCTAGATCCCTCTTCCCCGCTCTGAGATC  
 TAGGCCCCATGTCCCCGGGGCACCATTCTGGCTTCTAAGGCCTTGATTGCTTGGCC  
 CAGTTGTCCCCCTGTTCCCTATCCATTGGGCTCTGGGTCCCCGGTGGATACCCGGCCCTT  
 TATAGGTCCTTTGCCAAGCCATGTTACGCTTCTTGGCTAGGACCCCTGCTACCTTTG  
 TGCCCTCAAGATTCTCTTTGGCACGAAAGCTCTCTGGACAAGACGCCCCGTCATGGCA  
 CATTCAAGTGCAGTTCGGATCCCCCACCCTGCTTTGGCCCTCTGGCCTCTCGATCCCGG  
 ACCCAAAGGTCCATTTCTCTGTCTTACCCTTCTCTCTCTCTTGTGGGGCCGCCACAA  
 CATCCGCGGTTATTGTCTCAGCCCCAAAGATTCTTTTCTCCCGCGTCTCGGTTATTC  
 CAACATCCCGAGCTCTCTCCCCGACTGTTCCCTCGCCTTGCCACCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_178863

**Insert Size:**

1800 bp

**OTI Disclaimer:**

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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>Components:</b>	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>	<u><a href="#">NM_178863.2</a></u> , <u><a href="#">NP_849194.1</a></u>
<b>RefSeq Size:</b>	1750 bp
<b>RefSeq ORF:</b>	990 bp
<b>Locus ID:</b>	253980
<b>UniProt ID:</b>	<u><a href="#">Q8WZ19</a></u>
<b>Cytogenetics:</b>	16p11.2
<b>Protein Families:</b>	Ion Channels: Other, Transcription Factors
<b>Gene Summary:</b>	<p>Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex required for synaptic transmission (PubMed:19782033). The BCR(KCTD13) E3 ubiquitin ligase complex mediates the ubiquitination of RHOA, leading to its degradation by the proteasome (PubMed:19782033) Degradation of RHOA regulates the actin cytoskeleton and promotes synaptic transmission (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the supported protein.</p>