

Product datasheet for **RG206944**

POLDIP1 (KCTD13) (NM_178863) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POLDIP1 (KCTD13) (NM_178863) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POLDIP1
Synonyms:	BACURD1; FKSG86; hBACURD1; PDIP1; POLDIP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206944 representing NM_178863 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGCGGAGGCCCTCGGGCCCGGCTGCCGCCGCGGCCCGTCCCTGGAAGCCCCAAGCCCTCGGGTCTCGAGCCTGGCCCCGCCCTACGGTCTCAAGCCGCTGACCCGAACAGCAAATACGTGAAGCTGAACGTGGGCGGCTCGTTGCACTACACCACGCTGCGCACCTCACGGGACAGGACACCATGCTCAAAGCCATGTTAGCGGCCGCTGGAGGTGCTGACCGATGCCGGAGTTGGGTGCTGATTGACCGGAGCGGCCGCTCACTTTGTACAATCCTCAATTACCTGCGGGATGGGTCTGTGCCACTGCCGAGAGTACGAGAGAAGTGGGGGAGCTGCTGGGGGAAGCAGCTACTACCTGGTGCAGGGCCTGATTGAGGACTGCCAGCTGGCGCTGCAGCAAAAAAGGGAGACGCTGTCCCGCTGTGCCTCATCCCCATGGTGACATCTCCCGGGAGGAGCAGCAGCTCCTGGCCAGCACCTCAAAGCCGTGGTGAAGCTCCTGCACAACCGCAGTAACAACAAGTACTCCTACACCAGCAC TTCAGATGACAACCTACTTAAGAATCGAGCTGTTTCGACAAGCTGGCCCTGCGCTTCCACGGGCGGCTACTCTTCTCAAGGATGCTCTGGGGACGAGATCTGTTGCTGGTCTTTCTACGGGCAGGGCCGCAAAATCG CCGAGGTGTGCTGCACCTCCATTGTCTATGCTACGGAGAAGAAGCAGACCAAGGTGGAATTTCCAGAGGC CCGGATCTTCGAGGAGACCCTGAACATCCTCATCTACGAGACTCCCCGGGGCCAGACCCAGCCCTCCTG GAGGCCACAGGGGAGCAGCTGGAGCTGGTGGGCTGGCCGCGGGGAGGATGAAGAGAACCGAGAGCACC GTGTCGCAGGATCCATGTCCGGGCCATATCACCCACGACGAGCGTCTCATGGCCAACAAATTGTCTT CAAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206944 representing NM_178863
 Red=Cloning site Green=Tags(s)

MSAEASGPAAAAAPSLEAPKPSGLEPGPAAYGLKPLTPNSKYVKLVNMGSLHYTTLRRLTGQDTMLKAMF
 SGRVEVLTDAGGWVLDIDRSGRHFGTILNLYLRDGSVPLPESTRELGELLGEARYYLVOGLIEDCQLALQOK
 RETLSPLCLIPMVTSPREEQQLLASTSKPVVLLHNRSNNKYSYTSDDNLLKNIELFDKLALRFHGRL
 LFLKDVLDGEICWFSFYGQGRKIAEVCCSIVYATEKKQTKVEFPEARIFEETLNILIIYETPRGPDALL
 EATGGAAGAGGAGRGEDEENREHRVRRIHVRRHITHDERPHGQQIVFKD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178863

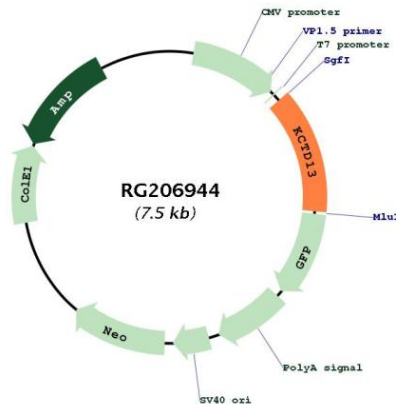
ORF Size: 987 bp

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 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](#)

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:	<u>NM_178863.2, NP_849194.1</u>
RefSeq Size:	1750 bp
RefSeq ORF:	990 bp
Locus ID:	253980
UniProt ID:	<u>Q8WZ19</u>
Cytogenetics:	16p11.2
Protein Families:	Ion Channels: Other, Transcription Factors
Gene Summary:	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]

Product images:


Circular map for RG206944