

## Product datasheet for MR205676

### Poldip2 (NM\_026389) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Poldip2 (NM_026389) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Poldip2
Synonyms:	1300003F06Rik; Pdip38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205676 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC

ATGGCTGGTTGTGTGGCCGACGGGCCCTAGCAGTGGGCAGCCGCTGGTGGTCTCGGTGCTGGCCACGACGACGAGGGTCCGAGGCCACTGTGTGCGGTGGAGCAGGGGCCCTCCGCCGTGGCCACAGCGACGACCGAAGGCATCTGTCGTCGCCGAACCGTGCAGAGGGCAAAGTGTGGAGACAGTTGGTGTGTTGAGGTGCCAAAACAAAATGAAAATATGAGACTGGGCAGCTATTCCTCCATAGTGTGTTTGGCTACCGAGGGGTCTCCTGTTCCCTGGCAGGCCAGACTGTATGACCGGGATGTGGCTTCTGCAACTCCAGAAAAGCAGAGAACCTGCCGCCATGGCTCTAAGGAGGTGAAAGGCAAACTCACACTTACTACCAAGTGCTGATTGATGCCCGTGACTGCCACATATATCTCAGAGATCTCAGACAGAAGCTGTGACCTTCTGGCTAACCATGATGACAGCCGGGCTCTATGCTATCCCAGGGTTGGACTATGTCAGCCATGAAGACATCCTCCCCTACACCTCCACGGATCAGGTTCCCATCAACACGAGCTCTTTGAAAGATTTCTTCTGTATGACCAGACAAAAGCACCTCCTTTGTGGCTCGAGAAACGCTGCGGGCTGGCAAGAGAAGAATCACCCGTGGCTAGAGCTCTCTGACGTGCACAGGGAGACCACCGAGAACATCCGTGTACAGTCATCCCTTTCTACATGGGCATGAGGGAAGCCAGAAATCCCACGTCTACTGGTGGCGCTATTGTATACGCTTGGAAAACCTGGACAGTGATGTGGTACAGCTCCGGGAGCGCACTGGCGGATATTCAGTCTCTCAGGGACCCTGGAACAGTTCGAGGACGAGGGGTGGTGGGCGGAAACCAGTGTTATCCAAGGAGCAGCCTGCATTCCAGTATAGCAGCCATGTTTCTCTGCAAGCTCCAGTGGGCACATGTGGGCACATTTGTTTTGAGAGACCGGATGGCTCCCACTTTGATGTCCGGATCCCACCATCTCCTTGGAAAGCAATAAAGATGAGAAGACCCACCCTCAGGCCTTCACTGG

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR205676 protein sequence  
Red=Cloning site Green=Tags(s)

MAGCVARRALAVGSRWWSRSLATTRGSRPLCAVGGAGGLPPVATATRRHLSSRNRAEGKVLETVGVFVEV  
 PKQNGKYETGQLFLHSVFGYRGVVLFPWQARLYDRDVASATPEKAENPAGHGSKEVKGKTHTYQVLIDA  
 RDCPHISQRSQTEAVTFLANHDDSRALYAIPLDYVSHEDILPYTSTDQVPIQHELFERFLLYDQTKAPP  
 FVARETLRAWQEKNHPWLELSDVHRETTENIRVTVIPFYMGMEAQNSHVYWWRYCIRLENLSDVVQLR  
 ERHWIRIFSLSGTLETVRGRGVVGREPVLSEKQPAFYSSHVSLQASSGHMWGTFRFRERPDGSHFDVRIIPP  
 FSLESNKDEKTPPSGLHW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_026389

**ORF Size:** 1107 bp

**OTI Disclaimer:** 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:**

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\\_026389.2](#)

**RefSeq Size:** 1951 bp

**RefSeq ORF:** 1107 bp

**Locus ID:** 67811

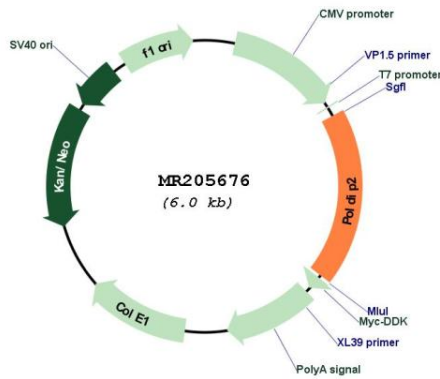
**UniProt ID:** [Q91VA6](#)

**Cytogenetics:** 11 B5

**MW:** 41.9 kDa

**Gene Summary:** Involved in DNA damage tolerance by regulating translesion synthesis (TLS) of templates carrying DNA damage lesions such as 8oxoG and abasic sites. May act by stimulating activity of DNA polymerases involved in TLS, such as PRIMPOL and polymerase delta (POLD1).  
[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205676