

Product datasheet for **MR208096**

Plid4 (NM_178911) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plid4 (NM_178911) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plid4
Synonyms:	A1132321; thss
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208096 representing NM_178911
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAAGAAGAAAGACACCCAGAGATGCGGATACCACTCCAGACAGCAGTGGAGGTCTCTGATTGGC
 CCTGCTCCACATCTCATGATCCACATAGCGGACTTGCCATGGTACTGGGATGCTAGCTGTACTGGGACT
 CAGCTCTGTGACTCTCATCTTGTTCCTGTGGCAAGGGGCCACTTCTTTACCAGTCATCGGATGTTCCCT
 GAGGAAGTGCCCTCCTGGTCTGGGAGACCCTGAAAGGAGACGCTGAGCAGCAGAATAACTCCTGTCAGC
 TCATCCTGTGGAAAGCATCCCTGAGGACTTGCCATTTGCAGCTGGCAGCCCCACTGCCAGCCCCCTGGC
 CCAGGCTTGGCTGCAGCTTCTTGACACTGCTCGGGAGAGCGTCCACATTGCCTCGTACTACTGGTCCCTC
 ACTGGACTGGACATTGGAGTCAATGACTCGTCTTCTCGGCAGGGAGAGGCCCTTCTACAGAAGTTCCAAC
 AGCTTCTTCTCAGGAACATCTCTGTGGTGGTGGCCACCCACAGCCCAACATTGGCCAAGACATCCACTGA
 CCTCCAGTCTTGGCTGCCATGGTGCCAGATACGACAAGTGCCATGAAACAGCTTACTGGGGTGT
 CTACACTCAAATTCGGGTTGGATGGGCGACACATCTACGTGGGAGTGCACCATGGACTGGCGGT
 CCCTGACTCAGGTGAAGGAATTTGGTGAATCATCTACAAGTGCAGCAACCTGGCTCAAGACCTTGAGAA
 AACATTCAGACCTACTGGGTGCTAGGGACTCCCCAAGCTGTTCTCCCTAAAACCTGGCCTCGGAACTTC
 TCATCCCACATCAACCGTTCATCCCTTGCGGGTCCCTTTGATGGGGTCCCACCACGGCCTATTTCT
 CGGCCTCCCCTCCCTCCTCTGCCCGCATGGCCGACCCGGGATCTGGACGCAGTGTGGGAGTATGGA
 GGGTGTCTGCCAGTTCATCTATGTCTCGGTGATGGAGTATTTCCCTACCACGCGCTTACCCACCATGCC
 AGGTACTGGCCCGTGTGGACAATGCGCTACGGGACGGCCCTCAATAAGGGTGTGCATGTGCGCTTAC
 TGGTCAGCTGTGGTTCAACACAGACCCACCATGTTTCGCTTATCTGAGGTCCTGCAGGCTTTCAGTAA
 CCCTCGGCTGGCATCTCAGTGGATGTGAAAGTCTTTCATCGTGCCTGTGGGAAATCATTCCAACATCCCG
 TTCAGCCGCTGAACCACAGCAAGTTCATGGTACAGACAAGACAGCCTATGTAGGCACCTTAAGTGGT
 CAGAAGACTACTTCAGCCACACCGCTGGTGTGGCCTGATTGTACAGCCAGAAGACCCCCAGAGCCAGCC
 AGGCGCAACCACCGTGCAGGAGCAGCTGAGGCAACTCTTGAACGAGACTGGAGTCCCCTATGCTATG
 GACCTAGACAGACAAGTCCCAGCCAGGACTGTGTCTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208096 representing NM_178911
 Red=Cloning site Green=Tags(s)

MDKKKEHPMIRIPLQTAVEVSDWPCSTSHDPHSLGMVLGMLAVLGLSSVTLILFLWQATSFSTRMFP
 EEVPSWSWETLKGDAEQNNNSQLILVESIPEDLPFAAGSPTAQPLAQAWLQLLDTARESVHIASYYWSL
 TGLDIGVNDSSSRQGEALLQKFQQLLRNLSVVVATHSPTLAKTSTDQLVLAHGAQIRQVPMKQLTGGV
 LHSKFWVVDGRHIYVGSANMDWRSLTQVKELGAIYNCNLAQDLEKTFQTYWVLGTPQAVLPKTPRNF
 SSHINRFHPLRPFDPVPTTAYFSASPPSLCPHGRTRDLDAVLGVMGARQFIYVSVMEYFPTTRFTHHA
 RYWPVLDNALRAAALNKGVHVRLLVSCWFNDPTMFAYLRSLQAFSNPSAGISVDVKVFIIVPGNHSNIP
 FSRVNHKFMVTDKTAAYVGTSNWSEDFSHTAGVGLIVSQKTPRAQPGATTVQEQLRQLFERDWSHYAM
 DLDRQVPSQDCVW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9026_f07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_178911

ORF Size: 1509 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_178911.4](#), [NP_849242.1](#)

RefSeq Size: 1978 bp

RefSeq ORF: 1512 bp

Locus ID: 104759

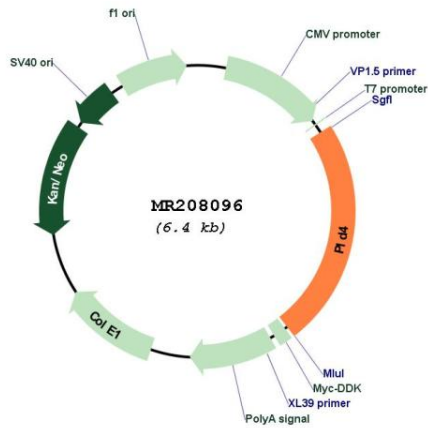
UniProt ID: [Q8BG07](#)

Cytogenetics: 12 F1

MW: 56.6 kDa

Gene Summary: 5'→3' DNA exonuclease which digests single-stranded DNA (ssDNA) (PubMed:30111894). Regulates inflammatory cytokine responses via the degradation of nucleic acids, by reducing the concentration of ssDNA able to stimulate TLR9, a nucleotide-sensing receptor (PubMed:30111894). Involved in phagocytosis of activated microglia (PubMed:22102906). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208096