

Product datasheet for **MR200389**

Pold4 (NM_027196) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pold4 (NM_027196) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pold4
Synonyms: 2410012M21Rik; AI463381; AW060307; p12; Polds
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200389 representing NM_027196
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTCGGAAGCGGTTTCATCACTGACTCCTATCCTGTTGTGAAGAAGAGGGAGGGGCCCCCTGGGCACA
GCAAGGGAGAGCTGGCACCCGAGCTAGGGGAAGACACCCAGTCCCTCAGCCAGGAGGAAACAGAGCTGGA
GCTGCTGAGGCAGTTTGACCTGGCCTGGCAGTATGGGCCTTGTACAGGTATCACAAGGCTGCAGCGCTGG
AGTCGGGCAGAGCAGATGGGCTGAAGCCCCCCTAGAGGTGTACCAAGTGTGAAGGCACACCCCTGAAG
ACCCTCACTTCCAATGCAGCCTGTGGCATCTCTACCCACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/mm9052_b09.zip

Restriction Sites: Sgfl-Mlul

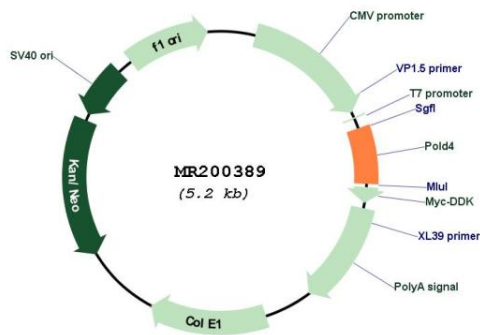


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RefSeq: [NM_027196.4](#)
RefSeq Size: 933 bp
RefSeq ORF: 324 bp
Locus ID: 69745
UniProt ID: [Q9CWP8](#)
Cytogenetics: 19 A
MW: 12.9 kDa

Gene Summary: As a component of the tetrameric DNA polymerase delta complex (Pol-delta4), plays a role in high fidelity genome replication and repair. Within this complex, increases the rate of DNA synthesis and decreases fidelity by regulating POLD1 polymerase and proofreading 3' to 5' exonuclease activity. Pol-delta4 participates in Okazaki fragment processing, through both the short flap pathway, as well as a nick translation system. Under conditions of DNA replication stress, required for the repair of broken replication forks through break-induced replication (BIR), a mechanism that may induce segmental genomic duplications of up to 200 kb. Involved in Pol-delta4 translesion synthesis (TLS) of templates carrying O6-methylguanine or abasic sites. Its degradation in response to DNA damage is required for the inhibition of fork progression and cell survival.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200389