

Product datasheet for **MC201576**

Mnd1 (NM_029797) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mnd1 (NM_029797) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mnd1
Synonyms: 2610034E18Rik; AI591601; Gaj
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC027741 sequence for NM_029797
CACGCGTTGTTGGCGCCAGACTCAAACAGGGAGGCCCTCGCGCAGCATGTCAAAGAAAAGAGGACTG
AGTGGGGAGGAAAAGAGAACCCGGATGATGGAGATATTTTTTTGAGACAAAAGATGTATTCCAGCTGAAAG
ACCTGGAGAAGCTCGCTCCCAAAGAGAAAAGGCATAACCGCCATGTCAGTGAAGGAAGTCCTTCAGAGCCT
AGTGGATGATGGTATGGTTGACTGTGAGAGGATCGGGACGTCCAATTACTATTGGCTTTTTCCGAGCAAG
GCTCTTCATGCCAGGAAGCGCAAGTTGGAGGCTCTGAACTCTCAGCTGTCAGAGGAAGCCAGAAGCATG
CAGACTTACAGAAGAGCATTGAGAAAGCAAGAGTTGGCCGGCAAGAGACGGAAGAACGAGCCATGCTTGC
AAAAGAAGTTCTTCATTTTCGAGACCAAAGGCAACAACCTTAAGGCAGAAGTGGAAAAATATCGAGAATGT
GACCCACAGGTTGTGGAAGAGATACGTGAAGCAAATAAAGTAGCTAAAGAAGCCGCAATCGATGGACTG
ATAACATATTTGCAATAAAATCCTGGGCCAAAAGAAAATTTGGGTTTGAAGAAAAGTAAAAATTGATAAAAA
CTTTGGAATTCAGAAGACTTTGACTACATAGACTAAAATGTTGGTGCTGAACAAGGATCTGGGAGCTTG
TGAATATGTCAAGGTTTAAACAGCTAACTAATGTTACCCAGTTATCATCTATCTGCTAATGTTTATCGT
TTTGTAGCTTTAAATAAAGTATACAATAAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_029797

Insert Size: 618 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).



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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: [BC027741](#), [AAH27741](#)

RefSeq Size: 825 bp

RefSeq ORF: 618 bp

Locus ID: 76915

UniProt ID: [Q8K396](#)

Cytogenetics: 3 F1

Gene Summary: Required for proper homologous chromosome pairing and efficient cross-over and intragenic recombination during meiosis. Stimulates both DMC1- and RAD51-mediated homologous strand assimilation, which is required for the resolution of meiotic double-strand breaks. [UniProtKB/Swiss-Prot Function]