

Product datasheet for **MC200315**

2010301N04Rik (BC002179) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: 2010301N04Rik (BC002179) Mouse Untagged Clone
Tag: Tag Free
Symbol: 2010301N04Rik
Synonyms: 2010301N04Rik; AI452191
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC002179
CGGACGCGTGGGCGGACGCGTGGGCTCACCAGGAAAGGAGCCTCGGGTTTCACCCCTTCGGGCCATGC
CCAGCGTGCCTGAGGGAGGTGGCTACGAGATAACAGACAAAAGAGTATCCAGAAGACATGCCATTCTTGA
AGTGGTTGATAGTCAGCTTCGAATCAAGCCAAATCTGAAGTGGAGATGGAGTGTACTCTGAGAAACAGTC
AGATGCTTGATGAAGATGATATATTGAGTGAGATGCAGAAGTCCCCTGTGGTTAACTTACCTGATAAGAC
AACTGGTGCCTCACAGCTGCAAGGAAGCCCTGAAATAACCAAGACCAAGTGTCCACCATAGATCCTATG
TCCTCTTCAGGTGAATGCAGAGCTTTCAGTGAGCACCAGCCACATCCTACCCAGAGGAAAAGAATCCTCC
CAGCTTGGATGTTGGCGGAAAGTCTAAGTGACCAGAGCCTCTCCACACCAGCTGAGGGGGGAGATAAGGA
TGTCATCCAGAGGAGTGGAAAAGCAGGAACCTGTGAAGATAGAACCCAGGAAACACATCATGGCATGGG
AAAAAGCGGCTTAGTCCATCAGGAAATCAAAAAGTGTGTGAGCGGAACAAGACCCTGGGAAGAAGTGCA
GAAAGGCTGACCAAGAAGGACCGGGTGTCTCTGAGAATGTTCCAGAATCATCATCTTCAAACATAGT
AAAGGACCCAGATGTGGATATTGTGAAGACAAATAAACAGAAGGACGGGATTTAATAGAGGAACCTGGT
GAGGTCTCTAAACATAAAGCCGCCACCAACCAACCAAAATGAAGAGGGCGAGAGTTGTGCACGTGTCC
AAAGCAAGTCACCTCCTGAGAAATCTCAAGGATGCCATCCTGAGTCTAGCTCTGCTCCCTCCAGTCTGTA
TGCTTTGCACACAGACACAGCTGACCCAGTGCTGGGCTGTTTCCAGAAAGCAAGGTCGGGAGGACGGCC
TGCATGTATGGGGCAACTGCTACAGGAGGAACCCCTCCACTTTCAACACTTCAGCCACCCTGGTGACA
GTGACTATGGAGAGGTACATGGCACAGATGAAGGTGTGATTGGTGACAGGCCGAGTGTCCCTATGGAGC
GTCTTGTACAGGAAGAACCCAGCACAAGATGGAATATAGGCACAGTGCATTCACAGCCAGAGTTGCT
CTGGATGAAGATGACGATGATGTCGGGCAACCCAGTGACGATGAGGACGAGGAAGACTATGAGCCGACAG
ATGAAGATTCTGATTGGCACCCAGGAAAGGACGATGAGGAGCAGGAAGATGTGGATGAGCTTTTGAAGA
AGCAAAAAGGTTTATGAGAAGGAAAAAGTAGCGTTTCTGCAATGACTCACATTTGCTTTTTTTCTCTGTG
GGAAACATACTCATTTTTTTTTCTTTAATAGTTCTTTGCACTTGAACATTGAAACACCAGCCTTCAG
TGAAATAGGTGGATGTATGCTATTGCCTATTTGGTGCTATTTAATGTATCCATCAGTAAAGCAGGTA
AAGAGTTGGGACGTCTGATATTTCTAAATACTTTACATACTGCGAATAAAAAGCCATAGGTTGTACAA AAAAAAAAAAAAA

Restriction Sites: RsrII-NotI



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ACCN:	BC002179
Insert Size:	1176 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).
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>BC002179</u> , <u>AAH02179</u>
RefSeq Size:	1623 bp
RefSeq ORF:	1176 bp
Locus ID:	72103
Cytogenetics:	6 D1
Gene Summary:	Nuclease involved in single-strand and double-strand DNA break repair. Recruited to sites of DNA damage through interaction with poly(ADP-ribose), a polymeric post-translational modification synthesized transiently at sites of chromosomal damage to accelerate DNA strand break repair reactions. Displays apurinic-apyrimidinic (AP) endonuclease and 3'-5' exonuclease activities in vitro. Also able to introduce nicks at hydroxyuracil and other types of pyrimidine base damage. Together with PARP3, promotes the retention of the LIG4-XRCC4 complex on chromatin and accelerate DNA ligation during non-homologous end-joining (NHEJ).[UniProtKB/Swiss-Prot Function]