

Product datasheet for **MC201735**

Xrcc4 (NM_028012) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Xrcc4 (NM_028012) Mouse Untagged Clone
Tag: Tag Free
Symbol: Xrcc4
Synonyms: 2310057B22Rik; AW413319; AW545101
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC025538 sequence for NM_028012
 CCACGCGTCCGCGGACGCGTGGGATTTTTAGAAGACCGGAAGTGGAGTACTGAGAGGTAGCCAGAAATGG
 AAAGGAAAGTAAGCAGAATCTACCTTGCTTCTGAACCAACGTACCTTATTTTCTGCAAGTGTCTTGGGA
 GAGAGCAATAGGATCCGCTTTGTTATTACACTTACTGACGGCCATTGAGCCTGGACTGCAACAGTTTCT
 GAATTGGAGATTTCCCAAGAAGCTGATGACATGGCTATGGAGAAAAGGAAAATACATTGATGAGCTGAGAA
 AGGCACTGGTGCCAGGTCAGGAGCAGCTGGTACATACAAGTTCCCTTTTCTAAGGAGTCTCAGCATT
 CTCCTTGAGAAAGAAGTAAAGATGTTTCATTGAGCTGGTTCCTTCAACCTAGACAAAGTTTCAAAC
 TCAGCTGAAGTCATAAGAGAAGTCAATTTGTTACTGCTGGACACCATTACAGAAAAGCAAGCAAAAAACG
 AGCACCTGCAGAAAAGAAAATGAAAGGCTCCTGAGAGACTGGAATGATGTTCAAGGCCGATTTGAGAAATG
 TGTGAGTGCCAAAAGAAGCCTTGGAGGCTGATTTGTATCAAAGATTTATCTTGGTGTGAATGAGAAGAAA
 ACAAAGATCCGGAGCTTGATAAATTGCTAAATGAAGTCCAGCAGCTGGAGGAGGTACCAAACCTGAAA
 GGGAAAATCCGTGTTCTGACAAAACACCTGAGGAGCATGGGCTTTATGATGGAAGCACCGATGAAGAAA
 TGGAGCCCTGTGCAGGCTGCAGAACTCTTCATAAGGATGATCCATATTTTCAAGTCCGGATGTCACT
 GACATTGCACCAAGTAGGAAGAGGAGACACCGAATGCAGAAGAATCTTGGGACAGAACCTAAAATGGCTC
 CACAGGAGTTGCCGCTACAGGAGAAGGAAAGGCTTGCCTTCTACTACCCAGACCTTGAAGAGGAGAG
 CACCTCTGCTGAAAACATGTCTTTAGAAACCCTGAGAAACAGCAGCCAGAAAGATCTCTTTGATTAGATA
 TAAACCCTAGAAAACAGCACTGGTGTTCATGAATGAACTATATTCTTTATCCAGTTCCTTTGGATGAGAAGAC
 AGGCTTTCAACTTAGCAGCCATGGTACTATGTCTTGAACCTTTACTATATGTACCAATGAATCATACT
 AGTATGTGACAGTCAGATGGAATGTGAGAGGACACTTTTCTCCCTTTCTAATTAATCTGAGTTTTGT
 TGCAAAAAGGCACATATATCATATTTGTTTATACATTTTTGTAACCTTTCTAATTGACTCTTGGAAAGATTTT
 GGAAATAGAACAATAATCTTTAACACTTTTTAGTTGCACTTTAAATTATCTTTGTTGAAAGCATTAAAT
 TTATGATGTGACACATATAAAATACATCTTTATCTTGTGTGTAACAGTCTGAAATCTGATAGTTAATAA
 AAGTTTGTGTTCTCAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_028012



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Insert Size:	981 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:	BC025538 , AAH25538
RefSeq Size:	1502 bp
RefSeq ORF:	981 bp
Locus ID:	108138
UniProt ID:	Q924T3
Cytogenetics:	13 C3
Gene Summary:	Involved in DNA nonhomologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. Binds to DNA and to DNA ligase IV (LIG4). The LIG4-XRCC4 complex is responsible for the NHEJ ligation step, and XRCC4 enhances the joining activity of LIG4. Binding of the LIG4-XRCC4 complex to DNA ends is dependent on the assembly of the DNA-dependent protein kinase complex DNA-PK to these DNA ends (By similarity). [UniProtKB/Swiss-Prot Function]