

## Product datasheet for **MC205436**

### **Xrcc1 (NM\_009532) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Xrcc1 (NM_009532) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Xrcc1
Synonyms:	Xrcc-1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC055900  
 GGCCCGAGCCTTGCGCGCTTGCGCACTGAGTCCCCTGCAGGGCGCGCGCTCCCCAACCTTCTCCGGG  
 GGCCCCCGGAGCTGCAACCTTCTTCTTCATTCCCTGGACGGTCGGGCGTCCACGGGCGTGACATGCC  
 GGAGATCAGCCTCCGCCACGTGTCTGCAGCAGCCAGGACTCGACCCATTGTGCCGAAAATCTTCTC  
 AAGCGGACACTTACCGGAAGTGGCGGGCAGCCAAGGCAGGAGAGAAGACCATCTCTGTGGTCTACAGT  
 TGGAGAAGGAGGAGCAGATCCACAGTGTGGACATTGGCAATGATGGCTCGGCCTTTGTGGAGGTGCTAGT  
 GGGCAGCTCGGCTGGAGGGGCCACAGCTGGTGAACAGGACTATGAGGTCCTTCTGGTCACCTCCTCTTTC  
 ATGTCCCCCTCTGAGAGCCGAAGTGGCTCAAATCCCAACCGTGTTCGCATTTTTGGACCTGACAAGTTAG  
 TCCGGGACAGCAGCGGAGAAGCGCTGGGACCGTGTAAAAATTGTGTGCAGCCAGCCATACAGCAAGGACTC  
 GCCATACGGCCTGAGTTTTGTGAAGTTTACAGCCCTCCTGACAAAGATGAGGCAGAGGCTACATCTCAG  
 AAGGTGACAGTGACCAAGCTCGGCCAGTTTCGTGTGAAAGAGGAGGATGACAGTGCCAACCTCCTGAAGC  
 CAGGGGCTCTTCTTTCAGTCGTATCAACAAGACGTATCAGCCTCTACGAGTGACCCAGCAGGACCCAG  
 CTATGCAGCAGCTACACTGCAGGCCTCTAGTGCAGCCTCCTCAGCCTCTCCAGTCCCAAGTTGTGGGC  
 AGCTCTTCCAAGCCTCAGGAGCCTCCAAAGGGAAGAGAAAAGTGGACTTGAGTCTAGAAGACAGGAAAC  
 CTCCCAGCAAACCTCGGCAGGGCCATCCACCCTCAAGAGACCCAAATTGTCTGTCCCTAGTCGACTCC  
 AGCTGCAGCTCCAGCCTCTACCCAGCACAGAGAGCCGTCCCAGGGAAGCCCGGGGAGAAGGCACAGAG  
 CCTAGGGGGGCTCGCACTGGACCCCAAGAGCTTGGCAAGATCCTGCAAGGGGTGGTGGTGGTCTAGTG  
 GCTTCCAGAACCCTTCCGCTCAGAGCTCCGGGACAAGGCCCTGGAAGTGGGGGCAAGTATCGGCCAGA  
 CTGGACCCAGACAGCACACATCTCATCTGTGCCTTTGCCAACTCCCAAATACAGCCAGGTCCTGGGC  
 CTTGGAGGCCGATTGTGCGTAAAGAGTGGGTGCTGGACTGTACCACATGCGGCGCCGGCTGCCCTCCC  
 GGAGGTACCTCATGGCAGGCCTTGGATCCAGCAGTGAGGACGAAGGGGACTCTCACAGTGAGAGCGGCGA  
 AGACGAAGCTCCCAAGCTTCCCCAAAAGCGGCCAGCCCAAAGCCAAGCCAGGCAGCAGGACCCAGC  
 TCACCCCGAGGCCACCAACCCAAAAGAGACCAAGCACCGTCAACAGGACCCAGGACCAATAGTGACA  
 CTGAGGGGGAAGAGTCAGAAGGACGGGACAACGGGGCAGAAGATTCTGGGGACACCAGGATGAACTGAG  
 GAGGGTGGCCAAACAGAGGGAACAAGGCAAGCCAGCCAGAGGAGAATGGCGAGGACCCGATGCA  
 GGCTCCACAGATGAGAACACAGACAGTGAAGCCCTCAGAGGCTGACCTGCCAATCCCAGAGCTCCAG  
 ACTTCTTCGAGGGCAAACACTTCTTCTGTATGGCGAGTTCCTGGGGATGAGAGGAGGAGGCTCATCCG  
 CTACGTGACCGCTTCAATGGCGAGCTCGAGGACTATATGAATGAGCGGGTCCAGTTCGTATCACGGCC  
 CAGGAGTGGGACCCCACTTTGAGGAGGCCCTGATGGAAAACCTTCCCTGGCCTTCGTGCGGCCCGGT  
 GGATCTACAGTTGTAATGAGAAGCAGAAGTTACTCCCCATCAGCTCTATGGGGTGGTCCCCAGGCCTG  
 AGTGTACACCTGTGTACGTGCAGATGTGCACATGTATGCACAGGCCTGAGTGCACACGTGTACACACA  
 AGAGTTTAATAAAGGAGACTTTGTTTGAIAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_009532

**Insert Size:** 1896 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:**

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:** [BC055900](#), [AAH55900](#)

**RefSeq Size:** 2143 bp

**RefSeq ORF:** 1896 bp

**Locus ID:** 22594

**UniProt ID:** [Q60596](#)

**Cytogenetics:** 7 11.42 cM

**Gene Summary:** Involved in DNA single-strand break repair by mediating the assembly of DNA break repair protein complexes (By similarity). Probably during DNA repair, negatively regulates ADP-ribose levels by modulating ADP-ribosyltransferase PARP1 activity (PubMed:28002403). [UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.