

## Product datasheet for **RN202089**

### **Xrcc1 (NM\_053435) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Xrcc1 (NM_053435) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Xrcc1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN202089 representing NM\_053435  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGGAGATCAGCCTCCGCCAGTCTGTCTGCAGCAGCCAGGACTCGACCCATCGTGCCGAAAATC  
 TTCTCAAGGCTGACACTTACCGAAGTGGCGGTACGCCAAGGCAGGAGAGAAGACCATCTCTGTGGTCCT  
 ACAGTTGGAGAAGGAGGAACAGATACACAGTGTGGACATTGGAACGATGGCTCGGCCTTCTGGAGGTG  
 CTAGTGGGCAGCTCGGCTGGAGGGGCCACAGCTGGTGAACAGGACTATGAGGTCCTTCTGGTCACCTCCT  
 CTTTCATGTCCCATCTGAGAGCCGAAGTGGCTCGAATCCAACCGTGTTCGCATTTTGGACCTGACAA  
 GTTAGTCCGGGCAGCAGCAGAGAAGCGCTGGGACCGAGTAAAATCGTGTGCAGCCAGCCATACAGCAAG  
 GACTCACCTACGGCCTGAGTTTGTGAAGTTTACAGCCCTCCAGACAAAGACGAGGCGGAGGCTCCAT  
 CTCAGAAGGTGACAGTGACCAAGCTCGGCCAGTCCGTGTGAAAGAGGAGGATGACAGTGCCAACCTCCT  
 GAGGCCAGGGCGCTCTTCTCAATCGGATCAACAAGGCGGCTTACGCCCTGCAAGTGACCCGGCAGGA  
 CCCAGCTATGCAGCGGCTACGCTGCAGGCTCTAGTGCAGCCCTCCTCAGCCTTGCCAGTCCCAAGTTG  
 GGGCAGCTCTTCCAAGCTTCAGGAGCCTCCCAAAGGGAAGAGGAAACTGGACTTGGGTCTAGAAGACAG  
 CAAGCCTCCGAGCAAACCTCAGCAGGGCCCGCTGCCCTCAAGAGACCCAAGTTGCCTGTTCTAGCCGT  
 ACCCCAGCTGCAACTCCAGCCTTACCCAGCAGACAGAAAGCCGTCCCAGGGAAGCCCGGGGAGAAGGCA  
 CAGAGCCTAGGGGAGCTCGCGCTGGACCCAGGAGCTTGGCAAGATCCTGCAGGGGGTGGTGGTGGTGT  
 CAGTGGCTTCCAGAACCCCTTCCGTTAGAGCTCCGGGACAAGGCCCTGGAGCTGGGGCCAAAGTATCGG  
 CCAGACTGGACCCCGACAGCACACACCTCATCTGTGCCTTTGCTAACACTCCCAAGTACAGCCAGGTCC  
 TGGGCTCGGAGGCCGATTGTTTCGTAAGAGTGGGTGCTGGACTGTTACCGCATGCGGGCGCCGGTGC  
 CTCCCGGAGGTACCTCATGGCAGGCCTTGATCCAGCAGTGAGGACGAGGGGGACTCTCACAGTGAGAGC  
 GGTGAAGATGAAGCTCCAAGCTTCCCGGAAGAGGCCCCAGCCCAAAGCCAAGCCAGGCAGCAGGAC  
 CCAGCTCACCCCGAGGCCACCAACCCAGAAGAGACCAAGCACCATCACAGGACCCAGGACAATAG  
 TGACACTGATGGGAACAGTCAAGGACGGGACAATGGGGCGAAGATTCTGGGACACCGAAGATGAA  
 CTGAGGAGGTGGCAAGCAGAGGGAGCAAAGGCAGCCCCAGCCAGAGGAGAATGGCAGGACCCGT  
 ATGCAGGCTCCACAGATGAGAACACAGACAGCAGGCTCCCTCAGAGGCTGACCTGCCAATTCAGAGCT  
 CCCAGACTTCTCAGGGCAAGCACTTCTTCTGTACGGCGAGTCCCTGGGGATGAGAGGAGGAAGCTC  
 ATCCGATATGTGACAGCTTCAATGGTGTGAGCTCGAGGACTACATGAGCGACCGGGTCCAGTTTGTATCA  
 CGGCCAGGAGTGGGATCCCAACTTTGAGGAGGCCCTGATGGAAAATCCTTCCCTGGCCTTCGTCGGCC  
 CCGCTGGATCTACAGTTGTAATGAGAAGCAGAAGTTACTCCCCACCAGCTCTATGGGGTGGTGCCACG  
 GCCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_053435

**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:** [NM\\_053435.1](#), [NP\\_445887.1](#)

**RefSeq Size:** 2117 bp

**RefSeq ORF:** 1896 bp

**Locus ID:** 84495

**UniProt ID:** [Q9ESZ0](#)

**Cytogenetics:** 1q21

**Gene Summary:** plays a role in base-excision repair; displays decreased mRNA expression in early embryos treated with the anticancer alkylating agent cyclophosphamide [RGD, Feb 2006]