

Product datasheet for **RR202089**

Xrcc1 (NM_053435) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide
Sequence:

>RR202089 representing NM_053435
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCCGGAGATCAGCCTCCGCCAGTCTGTCTGCAGCAGCCAGGACTCGACCCATCGTGCCGAAAATC
TTCTCAAGGCTGACACTTACCGGAAGTGGCGGTACGCCAAGGCAGGAGAGAAGACCATCTCTGTGGTCCT
ACAGTTGGAGAAGGAGGAACAGATACACAGTGTGGACATTGGAAAACGATGGCTCGGCCTTCGTGGAGGTG
CTAGTGGCAGCTCGGCTGGAGGGGCCACAGCTGGTGAACAGGACTATGAGGTCCTTCTGGTCACCTCCT
CTTTCAATGTCCTCATCTGAGAGCCGAAGTGGCTCGAATCCCAACCGTGTTCGCATTTTTGGACCTGACAA
GTTAGTCCGGGCAGCAGCAGAGAAGCGCTGGGACCGAGTAAAATCGTGTGCAGCCAGCCATACAGCAAG
GACTCACCTACGGCCTGAGTTTTGTGAAGTTTACAGCCCTCCAGACAAAGACGAGGCGGAGGCTCCAT
CTCAGAAGGTGACAGTGACCAAGCTCGGCCAGTCCGTGTGAAAGAGGAGGATGACAGTGCCAACCTCCT
GAGGCCAGGGCGCTCTTCTCAATCGGATCAACAAGGCGGCTTACGCCCTGCAAGTGACCCGGCAGGA
CCAGCTATGCAGCGGCTACGCTGCAGGCTCTAGTGCAGCCCTCCTCAGCCTTGCCAGTCCCAAGTTG
GGGCAGCTCTTCCAAGCTTCAAGAGCCTCCCAAAGGGAAGAGGAACTGGACTTGGGTCTAGAAGACAG
CAAGCCTCCGAGCAAACCTCAGCAGGGCCCGCTGCCCTCAAGAGACCCAAGTTGCCTGTTCTAGCCGT
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CAGAGCCTAGGGGAGCTCGCGCTGGACCCAGGAGCTTGGCAAGATCCTGCAGGGGGTGGTGGTGGTGT
CAGTGGCTTCCAGAACCCCTTCCGTTAGAGCTCCGGGACAAGGCCCTGGAGCTGGGGCCAAAGTATCGG
CCAGACTGGACCCCGACAGCACACACCTCATCTGTGCCTTTGCTAACACTCCCAAGTACAGCCAGGTCC
TGGCCTCGGAGCCGTATTGTTTCGTAAGAGTGGGTGCTGGACTGTTACCGCATGCGGCGCCGGCTGCC
CTCCCGGAGGTACCTCATGGCAGGCTTGGATCCAGCAGTGAGGACGAGGGGGACTCTCACAGTGAGAGC
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CCAGCTCACCCCGAGGCCACCAACCCAGAAGAGACCAAGCACCATCACAGGACCCAGGACAATAG
TGACTACTGATGGGAACAGTCAGAAGGACGGGACAATGGGGCGGAAGATTCTGGGACACCGAAGATGAA
CTGAGGAGGGTGGCCAAGCAGAGGGAGCAAAGGCAGCCCCAGCCCCAGAGGAGAATGGCGAGGACCCGT
ATGCAGGCTCCACAGATGAGAACACAGACAGCAGGCTCCCTCAGAGGCTGACCTGCCAATTCAGAGCT
CCCAGACTTCTCAGGGCAAGCACTTCTTCTGTACGGCGAGTCCCTGGGGATGAGAGGAGGAAGCTC
ATCCGATATGTGACAGCTTCAATGGTGTGAGCTCGAGGACTACATGAGCGACCGGGTCCAGTTTGTATCA
CGGCCAGGAGTGGGATCCCAACTTTGAGGAGGCCCTGATGGAAAATCCTTCCCTGGCCTTCGTCCGGCC
CCGCTGGATCTACAGTTGTAATGAGAAGCAGAAGTACTCCCCACCAGCTCTATGGGGTGGTCCCCAG
GCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >RR202089 representing NM_053435
Red=Cloning site Green=Tags(s)

MPEISLRHVVSCSSQDSTHRAENLLKADTYRKWRSKAGEKTISSVVLQLEKEEQIHSVDIGNDGSFAFVEV
 LVGSSAGGATAGEQDYEVLLVTSSFMSPSESRSGSNPNRVRIFGPKLVRAAAEKRWDRVKIVCSQPYSK
 DSPYGLSFVKFHSPPDKDEAEAPSQKVTVTKLGQFRVKEEDDSANSLRPGALFFNRINKAASASASDPAG
 PSYAAATLQASSAASSALPVPKVGSSSKLQEPKGGKRLDLGLEDSKPPSKPSAGPAALKRPKLPVPSR
 TPAATPASTPAQKAVPGKPRGEGTEPRGARAGPQELGKILQGVVVVLSGFQNPFRSELRDKALELGAKYR
 PDWTPDSTHLICAFANTPKYSQVLGLGGRIVRKEWVLDYRMRRLPSRRLMAGLGSSEDEGDSHSES
 GEDEAPKLPKRKRPQKAKTQAAGPSSPPRPPTPEETKAPSPGPQDNSDTEGEQSEGRDNGAEDSGDTEDE
 LRRVAKQREQRQPPAPEENGEDPYAGSTDENTDSEAPSEADLPIPELPDFFQGKHFFLYGEGFPDERRKL
 IRVYVAFNGELEDYMSDRVQFVITAQEWDPNFEEALMENPSLAFVRRPWIYSCNEKQKLLPHQLYGVVPQ
 A

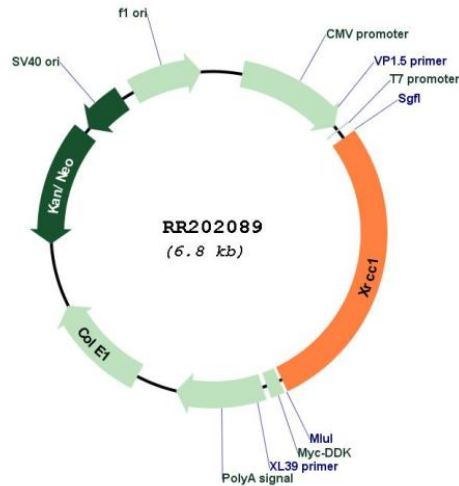
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_053435

ORF Size: 1893 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_053435.1, NP_445887.1</u>
RefSeq Size:	2117 bp
RefSeq ORF:	1896 bp
Locus ID:	84495
UniProt ID:	<u>Q9ESZ0</u>
Cytogenetics:	1q21
MW:	68.8 kDa
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]