

Product datasheet for **SC116204**

XRCC1 (NM_006297) Human Untagged Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | XRCC1 (NM_006297) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | XRCC1 |
| Synonyms: | RCC; SCAR26 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_006297, the custom clone sequence may differ by one or more nucleotides

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ATGCCGGAGATCCGCCTCCGCCATGTCGTGTCCTGCAGCAGCCAGGACTCGACTCACTGTGCAGAAAATC
TTCTCAAGGCAGACACTTACCGAAAATGGCGGGCAGCCAAGGCAGGCGAGAAGACCATCTCTGTGGTCCT
ACAGTTGGAGAAGGAGGAGCAGATACACAGTGTGGACATTGGGAATGATGGCTCAGCTTTCTGTGGAGGTG
CTGGTGGGCAGTTCAGCTGGAGGCGCTGGGGAGCAAGACTATGAGGTCTTCTGGTCACCTCATCTTTCA
TGTCCTTCCGAGAGCCGAGTGGCTCAAACCCCAACCGCTTCGCATGTTTGGCCTGACAAGCTGGT
CCGGGCAGCCCGCAGAGAAGCGCTGGGACCGGGTCAAAATTGTTTGCAGCCAGCCCTACAGCAAGGACTCC
CCCTTTGGCTTGAGTTTTGTACGGTTTCATAGCCCCCAGACAAAGATGAGGCAGAGGCCCGTCCAGAG
AGGTGACAGTGACCAAGCTTGGCCAGTTCGTGTGAAGGAGGAGGATGAGAGCGCAACTCTCTGAGGCC
GGGGGCTCTCTTTCAGCCGGATCAACAAGACATCCCCAGTCACAGCCAGCGACCCAGCAGGACCTAGC
TATGCAGCTGCTACCCTCCAGGCTTCTAGTGTGCCTCCTCAGCCTCTCCAGTCTCCAGGGCCATAGGCA
GCACCTCAAGCCCCAGGAGTCTCCAAAGGGAAGAGGAAGTTGGATTTGAACCAAGAAGAAAAGAAGAC
CCCCAGCAAACCCAGCCAGCTGTCCGCATCTGTTCCCAAGAGACCTAAATTGCCAGCTCCAACCTCGT
ACCCCAGCCACAGCCCCAGTCCCTGCCCGAGCACAGGGGGCAGTGACAGGCAAACCCCGAGGAGAAGGCA
CCGAGCCCAGACGACCCCGAGCTGGCCAGAGGAGCTGGGGAAGATCCTTCAGGGTGTGGTGTGGTGTCT
GAGTGGCTTCCAGAACCCCTTCCGCTCCGAGCTGCGAGATAAGGCCCTAGAGCTTGGGGCCAAGTATCGG
CCAGACTGGACCCGGGACAGCACGCACCTCATCTGTGCCTTTGCCAACCCCCAAGTACAGCCAGGTCC
TAGGCTGGGAGGCCGCATCGTGCCTAAGGAGTGGGTGCTGGACTGTACCCGCATGCGTCCGGCGGCTGCC
CTCCCAGAGGTACCTCATGGCAGGGCCAGTTCAGCAGTGAAGGAGGATGAGGCCTCTCACAGCGGTGGC
AGCGGAGATGAAGCCCCAAGTTCCTCAGAAGCAACCCAGACCAAAACCAAGCCCACTCAGGCAGCTG
GACCCAGCTCACCCAGAAGCCCCAACCCCTGAAGAGACCAAAGCAGCCTCACCAAGTGTCCAGGAAGA
TATAGACATTGAGGGGTACAGTCAGAAGGACAGGACAATGGGGCGGAAGATTCTGGGGACACAGAGGAT
GAGCTGAGGAGGGTGGCAGAGCAGAAGGAACACAGACTGCCCCCTGGCCAGGAGGAGAATGGGGAAGACC
CGTATGCAGGCTCCACGGATGAGAACACGGACAGTGAAGAACACCAGGAGCCTCCTGATCTGCCAGTCCC
TGAGCTCCAGATTTCTCCAGGGCAAGCACTTCTTTCTTACGGGGAGTTCCTGGGGACGAGCGGCGG
AAACTCATCCGATACGTACAGCCTTCAATGGGGAGCTCGAGGACTATATGAGTGACCGGGTTCAGTTTG
TGATCACAGCACAGGAATGGGATCCAGCTTTGAGGAGGCCCTGATGGACAACCCCTCCCTGGCATTTCGT
TCGTCCCCGATGGATCTACAGTTGCAATGAGAAGCAGAAGTTACTTCTCACCAAGCTCTATGGGGTGGT
CCGCAAGCCTGA
    
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Chromatograms: https://cdn.origene.com/chromatograms/ja2800_h03.zip

Restriction Sites: NotI-NotI

ACCN: NM_006297

Insert Size: 2550 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_006297.1](#), [NP_006288.1](#)

RefSeq Size: 2083 bp

RefSeq ORF: 1902 bp

Locus ID: 7515

UniProt ID: [P18887](#)

Cytogenetics: 19q13.31

Domains: BRCT, XRCC1_N

Protein Families: Druggable Genome

Protein Pathways: Base excision repair

Gene Summary: The protein encoded by this gene is involved in the efficient repair of DNA single-strand breaks formed by exposure to ionizing radiation and alkylating agents. This protein interacts with DNA ligase III, polymerase beta and poly (ADP-ribose) polymerase to participate in the base excision repair pathway. It may play a role in DNA processing during meiosis and recombination in germ cells. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. [provided by RefSeq, Jul 2008]