

Product datasheet for **SC116732**

XRCC2 (NM_005431) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XRCC2 (NM_005431) Human Untagged Clone
Tag:	Tag Free
Symbol:	XRCC2
Synonyms:	FANCU; POF17; SPGF50
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116732 sequence for NM_005431 edited (data generated by NextGen Sequencing)

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ATGTGTAGTGCCTTCCATAGGGCTGAGTCTGGGACCGAGCTCCTTGCCCGACTTGAAGGT  
AGAAGTTCCTTGAAAGAAATAGAACCAAATCTGTTTGCTGATGAAGATTCACCTGTGCAT  
GGTGATATTCTTGAATTCATGGCCAGAAAGGAACAGGAAAAACAGAAATGCTTTATCAC  
CTAACAGCAGATGTATACTTCCAAATCAGAAGGTGGCCTGGAAGTAGAAGTCTTATTT  
ATTGATACAGATTACCCTTTGATATGCTCCGGCTAGTTACAATCTTGAGCACAGACTA  
TCCCAAAGCTCTGAAGAAATAATCAAATACTGCCTGGGAAGATTTTTTTGGTGTACTGC  
AGTAGTAGCACCCACTTACTTCTTACACTTTACTACTAGAAAGTATGTTTTGTAGTCAC  
CCATCTCTCTGCCTTTTGATTTGGATAGCCTGTCAGCTTTTTACTGGATAGACCGGCTC  
AATGGAGGAGAAAGTGTGAACCTTACAGGAGTCTACTCTGAGGAAATGTTCTCAGTGCTTA  
GAGAAGCTTGAAATGACTATCGCTGGTCTTTTTGCAACGACACAAACTATAATGCAG  
AAAGCCTCGAGCTCATCAGAAGAACCTTCTCATGCCTCTCGACGACTGTGTGATGTGGAC  
ATAGACTACAGACCTTATCTCTGTAAGGCATGGCAGCAACTGGTGAAGCAGGATGTTT  
TTCTCCAAACAAGATGATTCTCAAAGCAGCAACCAATTTTCATTAGTTTCACGTTGTTTA  
AAAAGTAACAGTTTAAAAAACATTTTTTTATTATTGGAGAAAGTGGGGTTGAATTTTGT  
TGA
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Clone variation with respect to NM_005431.1



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005431 unedited
 GGAACGTCACATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCCTCGT
 GCCGAATTCGGCACGAGGGTAGAGTCTGCGCAGTTGGTGAATGGCGTTGGTGGCGGGAAA
 GTTGAGTCTCTCCTGCGCCGAGCCTTCGGGGCGATGTGTAGTGCCTTCCATAGGGCTGAG
 TCTGGGACCGAGCTCCTTGCCCGACTTGAAGGTAGAAGTTCCTTGAAAGAAATAGAACCA
 AATCTGTTTGTGATGAAGATTCACCTGTGCATGGTGTATTCTTGAATTCATGGCCCA
 GAAGGAACAGGAAAAACAGAAATGCTTTATCACCTAACAGCAGCATGTATACTTCCCAAA
 TCAGAAGTGGCCTGGAAGTAGAAGTCTTATTTATTGATACAGATTACCACTTTGATATG
 CTCCGGCTAGTTACAATTCTTGAGCACAGACTATCCCAAAGCTCTGAAGAATAATCAAA
 TACTGCCTGGGAAGATTTTTTTTGGTGTACTGCAGTAGTAGCACCCACTTACTTCTTACA
 CTTTACTACTAGAAAGTATGTTTTGTAGTACCCATCTCTGCCTTTTGATTTTGGAT
 AGCCTGTCAGCTTTTACTGGATAGACCGCTCAATGGAGGAGAAAGTGTGAACCTACAG
 GAGTCTACTCTGANGAAATGTTCTCAGTGCTTAGAGAAGCTTGTAAATGACTATCGCCTG
 GTTCTTTTTGCAACGACACANACTATNATGCAGAAAGCCTCGAGCTCATCAGAAGNACCT
 TCTCATGCCTCTCGACGACTGTGTGATGTGGACATAGACTACAGACCTTATCTCTGTNAG
 GCATGGCAGCNACTGGNTGAGCACAGGNATGNTTNNCTCCCAACAGATGATTCTCAAAG
 CAGCACN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005431 unedited
 ATGGACCGCGCGGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTAGAGATGGAGTCGCCAGGCGGGAGTGAATGGCGCATCTCAGTCACTGCAACCTC
 CACCTCCTGGGTCCAGCAATTCCTGCCTCGGCCTCCTGAGTAGCTGGCACCACAGGC
 ACGCACCACCATGCCAGCTAATTTTTTGTATTTAATAGAGATGGGGTTTCACCGTGTT
 GCCCAGGCTGGTCTTGACCTCCTGAGCGGGCAATCCACCACCTCGGCCTCGCAAAGT
 GCTAGGATCACAGGCATGAGCCACCAGCCAGTCAGTCTTGTTCCTTTTTATGGCTGTA
 TAGTATCCCTGGTGTGTATGTACCACATTTTTTAATCCAGTCTGCTACTGATGGGCAG
 TGCTGCAACGAACATACGCGTGCATGTGTCTTTATAACAATGATTTCTATTCTTTGGGT
 ATATACCAGTAATGAGATTGCTGGGTGAATGGTATCTCTGTCTTTATCCCCACTGT
 CTTCCACAATGGCTGAACTAATTTAATTTACATTTCCACCAACAGTGTATAAGCATATCT
 TTTTCTCCACAACCTCACCAGCATCTGTTATTTTCTGACATTTTATAATAGCCATTTGG
 ACTGGTGTGAGATGGTATCTCGTTGTTGTTTCGATTTGCATTTCTCTAATGATCAGTGAT
 CTGGGGCTTTTTTTCATAGGATTGTTGGCCACAGATGTCTTCTTTTAAAAGTGTCTGTT
 CATGTCCCTTGCCACCTTTAATGGGGTGGCTTTTTCTTCTAAATTTGTTTAAATACGTA
 TAGGAGCTGGATTTAGACCTTTCTAGATGCATAGTTGCAACAATTTCTCCCATCTGGA
 AGCTGCCTGGTACTCTCCTTGAATTTCTTTGCTGGGCGCTTTAGTTTAAATAAGAC
 CCATTGGGAATTTTTGCTCTGTTGCAATTGTTTTGGCGTCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_005431

Insert Size:

3500 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:	NM_005431.1 , NP_005422.1
RefSeq Size:	3094 bp
RefSeq ORF:	843 bp
Locus ID:	7516
UniProt ID:	O43543
Cytogenetics:	7q36.1
Protein Families:	Druggable Genome
Protein Pathways:	Homologous recombination
Gene Summary:	This gene encodes a member of the RecA/Rad51-related protein family that participates in homologous recombination to maintain chromosome stability and repair DNA damage. This gene is involved in the repair of DNA double-strand breaks by homologous recombination and it functionally complements Chinese hamster irs1, a repair-deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents. [provided by RefSeq, Jul 2008]