

Product datasheet for SC116733

XRCC3 (NM_005432) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XRCC3 (NM_005432) Human Untagged Clone
Tag:	Tag Free
Symbol:	XRCC3
Synonyms:	CMM6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116733 sequence for NM_005432 edited (data generated by NextGen Sequencing)

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ATGGATTTGGATCTACTGGACCTGAATCCCAGAATTATTGCTGCAATTAAGAAAGCCAAA
CTGAAATCGGTAAGGAGGTTTTACACTTTTCTGGACCAGACTTGAAGAGACTGACCAAC
CTCTCCAGCCCCGAGGTCTGGCACTTGCTGAGAACGGCCTCCTTACACTTGCGGGGAAGC
AGCATCCTTACAGCACTGCAGCTGCACCAGCAGAAGGAGCGGTTCCCCACGCAGCACCAG
CGCCTGAGCCTGGGCTGCCCGGTGCTGGACGCGCTGCTCCGCGGTGGCCTGCCCTGGAC
GGCATCACTGAGCTGGCCGGACGCAGCTCGGCAGGAAGACCCAGCTGGCGCTGCAGCTC
TGCCTGGCTGTGCAGTTCCCGCGGCAGCACGGAGGCTGGAGGCTGGAGCCGTCTACATC
TGCACGGAAGACGCCTTCCCGCACAAAGCGCCTGCAGCAGCTCATGGCCACGAGCCGCGG
CTGCGCACTGACGTTCCAGGAGAGCTGCTTCAGAAGCTCCGATTTGGCAGCCAGATCTTC
ATCGAGCAGCTGGCCGATGTGGACACCTTGTGGAGTGTGTGAATAAGAAGGTCCCCGTA
CTGCTGTCTCGGGCATGGCTCGCTGGTGGTCATCGACTCGGTGGCAGCCCCATTCCGC
TGTGAATTTGACAGCCAGGCCTCCGCCCCAGGGCCAGGCATCTGCAGTCCCTGGGGGCC
ACGCTGCGTGAGCTGAGCAGTGCCTTCCAGAGCCCTGTGCTGTGCATCAACCAGGTGACA
GAGGCCATGGAGGAGCAGGGCGCAGCACACGGGCCGCTGGGGTTCTGGGACGAACGTGTT
TCCCCAGCCCTTGGCATAACCTGGGCTAACCAGCTCCTGGTGAGACTGCTGGCTGACCGG
CTCCGCGAGGAAGAGGCTGCCCTCGGCTGCCAGCCCGGACCCCTGCGGGTGTCTCTGCC
CCCCACCTGCCCCCTCCTCTGTTCTACACGATCAGTGCCGAAGGGGTGCGAGGGACA
CCTGGGACCCAGTCCCCTGA

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Clone variation with respect to NM_005432.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005432 unedited GGCTTTCCAGGAATTTGTACTACGATCTCACTATAGGGCGGCCGCGAATTCGCACGAGGG GAGACACTTAAGGGAAATTAACCTGCAGAGTGCAAGAGATGCCTCAGTCAAGTCAGCCAA AAACACGCGGGTTCATCCCCAAGCCCCAGAGAGTGACAGAGCCCCGATGACACGGACACCT CGGCTGCTGTCACTTCCCTGGTTCGGGCCTCCACAGGCTTTGAATTGAAGGCGAGTGCC TCAGAATTTGCATCCATTGTTCTGTCTTCTCCTGGGAAGTTATTCATCCTGGTGGCCAGCC CACCGCAAAAATGGATTTGGATCTACTGGACCTGAATCCCAGAATTATTGCTGCAATTA GAAAGCCAAACTGAAATCGGTAAGGAGGTTTTACTTTTTCTGGACCAGACTTGAAGAG ACTGACCAACCTCTCCAGCCCCGAGGTCTGGCACTTGCTGAGAACGGCCTCCTTACTCT GCGGGGAAGCAGCATCCTTACAGCACTGCAGCTGCACCAGCAGAAGGAGCGGTTCCCCAC GCAGCACCAGCGCTGAGCCTGNGCTGCCCGGTGCTGGACGCGCTGCTCCGCGTGGCCT GCCCTGGACGGCATCACTGAGCTGGCCGGACGCACTCGGCAGGGAAGACCCAGCTGGC GCTGCAGCTCTGCCTGGCTGTGCACTTCCCGCGGACGACGAGCCTGGAGGCTGGAGC CGTCTACATCTGCACGGAAGACGCTTCCCGCACAGCGCTGCAGCAGCTCATGGCCCA GCAGCCGCGGCTGCGCACTGACGTTTTCCAGAGAGCTGCTTCAGGAGCTCCGATTTGGCAG CCAGATCTTCATCGAGCAGTGGCCGATGTGGACATCCTGCTTGNAGTGTGTGAACAAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005432 unedited CCCCGGGGCCCCACCACATCTTTTTCTCCNNCCGGNTTACTTGANACCGCGCCGCATTC TAGATCGAGTTTTTTTTTTTTTTTTTTTTTGCATCCATTGACATTTATTTGCAAAGGC CTGGTCTGTGCCAGGCAGCATGTGGAGGCACTGAGTGGGGGTGGAGGGGTTGTACCGT GGGAATCAAGGGGTCACTACTGTGCCATGGGGAGGCCACGCCACTCTGCCTGTGGGT GGATATTTAGCCTGTGCAGCCAGATGTGTTCCAGGAGGCTCTGCTTTCCAGCCAGATG TAAGGCCTGGCCACAGTGTGGGACTGGGTCTGCACAGTGTGGGACTGCAGGACAGGGTCC TGAGGTGGCCCTGCCAGGATCCTGCCATATCCCTACCAGAATACCACCCAGCCAGGCC AGGGCTGAGCTGGACGCCAGACCCCCAGGGCCAGGATACACCGGGACCCTCCTTCTCT CAACCTCGGATCCTTTTGCCTAACTGTGTTCCAGGTGGCTGACGAGCCTGTACAGT GCCAACCTGCGCTGCCTGCGCTCCTCTGACCGGCTGTGGTGTGGCACAGGCCACACTA CTAGAGACAAGGCAAGTCCCCACCCCCACGCTCTCCTGGACCCTGACACTGGAGTTGG TGGGATATGCTTTTTTCACTTTGTACCACACCTGAAGTTTTGTTGGGCACAGTGTGTGCC CAAGTTGGTGCCCCCGGAGCCAAGGACCCACAAGTGGGTGAGGAGAAGCCGCTTGCCCT GAAANCCATTGTGGCCTGAATGGGGGGGAATAAAGACTGCCCTTTGTGCACGAAGGGA GACCCTCCGGGGCACCGTCCCAGGCTTAGGGGTTTTAAGCCTCAACCCAGGGGGCAGGC CCAAAACCAACCCTTTTGGCTTTCATTGGAAAAAAGGGCGTTTTCCAGGGGATCC CGTTGGAACCTCCGGCTCCACCCTTGAACCTTTCCCN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_005432
Insert Size:	2500 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_005432.2 , NP_005423.1
RefSeq Size:	2615 bp
RefSeq ORF:	1041 bp
Locus ID:	7517
UniProt ID:	O43542
Cytogenetics:	14q32.33
Protein Families:	Druggable Genome
Protein Pathways:	Homologous recombination
Gene Summary:	<p>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 functionally complements Chinese hamster irs1SF, a repair-deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents and is chromosomally unstable. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks a segment in the 5' UTR, compared to variant 1. Variants 1, 2 and 3 encode the same protein.</p>