

## Product datasheet for **SC316726**

### XRCC3 (NM\_001100118) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	XRCC3 (NM_001100118) Human Untagged Clone
Tag:	Tag Free
Symbol:	XRCC3
Synonyms:	CMM6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316726 representing NM_001100118. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGGATTTGGATCTACTGGACCTGAATCCAGAATTATTGCTGCAATTAAGAAAGCCAAACTGAAATCG
GTAAAGGAGGTTTTACACTTTTCTGGACCAGACTTGAAGAGACTGACCAACCTCTCCAGCCCCGAGGTC
TGGCACTTGCTGAGAACGGCCTCCTTACACTTGCGGGGAAGCAGCATCCTTACAGCACTGCAGCTGCAC
CAGCAGAAGGAGCGTTCCCCACGCAGCACCAGCGCCTGAGCCTGGGCTGCCCGGTCTGGACGCGCTG
CTCCGCGGTGGCCTGCCCTGGACGGCATCACTGAGCTGGCCGGACGCAGCTCGGCAGGGAAGACCCAG
CTGGCGCTGCAGCTCTGCCTGGCTGTGAGTTCCTCGCGGCAGCACGGAGGCTGGAGGCTGGAGCCGTC
TACATCTGCACGGAAGACGCCTTCCCGCACAAGCGCCTGCAGCAGCTCATGGCCCAGCAGCCGCGGCTG
CGCACTGACGTTCCAGGAGAGCTGCTTCAGAAGCTCCGATTTGGCAGCCAGATCTTCATCGAGCAGTG
GCCGATGTGGACACCTTGTGGAGTGTGTGAATAAGAAGGTCCCGTACTGCTGTCTCGGGGCATGGCT
CGCCTGGTGGTCATCGACTCGGTGGCAGCCCCATTCCGCTGTGAATTTGACAGCCAGGCCTCCGCCCCC
AGGGCCAGGCATCTGCAGTCCCTGGGGGCCAGCTGCGTGAGCTGAGCAGTGCCTTCCAGAGCCCTGTG
CTGTGCATCAACCAGGTGACAGAGGCCATGGAGGAGCAGGGCGCAGCACACGGGCCGCTGGGTTCTGG
GACGAACGTGTTTCCCCAGCCCTGGCATAACCTGGGCTAACCAGCTCCTGGTGAGACTGCTGGCTGAC
CGGCTCCCGGAGGAAGAGGCTGCCCTCGGCTGCCAGCCCGGACCCTGCCGGTGCTCTCTGCCCCCAC
CTGCCCCCTCCTCCTGTTCTACACGATCAGTGCCGAAGGGGTGCGAGGGACACCTGGGACCCAGTCC
CACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map: □



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<b>ACCN:</b>	NM_001100118
<b>Insert Size:</b>	1041 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001100118.1</a></u>
<b>RefSeq Size:</b>	2563 bp
<b>RefSeq ORF:</b>	1041 bp
<b>Locus ID:</b>	7517
<b>UniProt ID:</b>	<u><a href="#">O43542</a></u>
<b>Cytogenetics:</b>	14q32.33
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Homologous recombination
<b>MW:</b>	37.8 kDa
<b>Gene Summary:</b>	<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 (3) lacks a segment in the 5' UTR, compared to variant 1. Variants 1, 2 and 3 encode the same protein.</p>