

Product datasheet for **SC126431**

XRCC4 (BC005259) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XRCC4 (BC005259) Human Untagged Clone
Tag:	Tag Free
Symbol:	XRCC4
Synonyms:	DNA repair protein XRCC4; X-ray repair, complementing defective, repair in Chinese hamster; X-ray repair complementing defective repair in Chinese hamster cells 4; X-ray repair cross complementing protein 4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC005259 edited

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AAACCTTGATCTGTGAAAGCGGGCGTTTTGGAAGATACCGGAAGTAGAGTCACGGAGAGG
TATTAAGAAATGGAGAGAAAAATAGCAGAATCCACCTGTTTCTGAACCCAGTATAACT
CATTTTCTACAAGTATCTTGGGAGAAAACACTGGAATCTGGTTTTGTTATTACACTTACT
GATGGTCATTCAGCATGGACTGGGACAGTTTCTGAATCAGAGATTTCCCAAGAAGCTGAT
GACATGGCAATGGAAAAAGGAAATATGTTGGTGAAGTGAAGAAAGCATTGTTGTCAGGA
GCAGACCAGCTGATGTATACACGTTTAAATTTTTCTAAAGAGTCTGTTATTTCTCTTT
GAGAAAAACCTGAAAGATGTCTCATTACAGACTTGGTTCCTTCAACCTAGAGAAAGTTGAA
AACCCAGCTGAAGTCATTAGAGAACTTATTTGTTATTGCTTGGACACCATTGCAGAAAAT
CAAGCCAAAAATGAGCACCTGCAGAAAGAAAATGAAAGGCTTCTGAGAGATTGGAATGAT
GTTCAAGGACGATTTGAAAAATGTGTGAGTGCTAAGGAAGCTTTGGAGACTGATCTTTAT
AAGCGTTTTATTCTGGTGTGAAATGAGAAGAAAACAAAAATCAGAAGTTTGCATAATAAA
TTATTAATGCAGCTCAAGAACGAGAAAAGGACATCAAACAAGAAGGGGAAACTGCAATC
TGTTCTGAAATGACTGCTGACCGAGATCCAGTCTATGATGAGAGTACTGATGAGGAAAGT
GAAAACCAAACCTGATCTCTCTGGGTTGGCTTCAGCTGCTGAAGTAAAGATGATTCCATT
ATTTCAAGTCTTGATGTCAGTATATTGCACCAAGTAGAAAAAGGAGACAGCGAATGCAA
AGAAATCTTGGGACAGAACCTAAAATGGCTCCTCAGGAGAATCAGCTTCAAGAAAAGGAA
AAAGGGAGGAAGAAGGAGACTTCAGAGAAAAGAGCCGTGTGATGGAAGCAAAATCAGAGA
GAAAAGATGCTAAGCTGCTGCCTTTGAATAAGGAGGAACGTGAGCCAACAGATCCAAGAA
CTGAAGCTCTAGGCAGTGGAAAAGCCAAGGAAACTGATCTCCCTTCGAGCCTCCGGAGG
GAGTGTAGCCCTGCCAACACCTTTATTTTAGCCCCATAACAGTCATTTTCAGACTTGTGGC
CTCCAGAAATTTAAGAGAATAAAATTTTTATTGTATTAAGCCATGAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for BC005259 unedited TAGGATTTTGTAAACGACTCACTATAGGCGGCGCGCAATTCGCCATTACGGCCGGGA AACCTTGATCTGTGAAAGCGGGGTTTTGGAGGATACCGGAAGTAGAGTCACGGAGAGGT ATTAAGAAATGGAGAGAAAAATAAGCAGAATCCACCTGTTTCTGAACCCAGTATAACTC ATTTTCTACAAGTATCTTGGGAGAAAACACTGGAATCTGGTTTTGTTATTACACTTACTG ATGGGGATTCANCAATGGACTGGGACAGTTTCTGAATCAGAGATTTCCAAGAAGCTGATG ACATGGCAATGGAAAAAGGAAATATGTTGGTGAAGTGAAGAAAGCATTGTTGTGAGGAG CAGGACCAGCTGATGTATACACGTTAATTTTTCTAAAGAGTCTGTTATTCTTCTTTG AGAAAAACCTGAAAGATGTCTCATTTCAGACTTGGTTCCTTCAACCTAGAGAAAGTTGAAA ACCCAGCTGAAGTCATTAGAGAACTTATTTGTTATTGCTTGGACCCATTGGCAGAAATCA AGCCAAAATGAGCACCTGCCAAAAGAAATGAAAGGCTTCTGAGAGATGGGATGATGTTCA AGGACGATTTGAAAAATGTGTGAGTGCTAAGGAAGCTTTGGAGACTGATCTTTATAAGCG GGTTATTCTGGGGTGGATGAGAAGGAAACAAAAATCAGAGATGTGTAATAAATTATTA AATGCGGCTCAGGAACGAGAAAGGGCTCAAACAGGAGGGGAAACTGCCATCTGGTCCTG AATGACTGCTGGCCAGATCCACTCCATTATGAGGGTCTGTTAGAGAAATGGAAACCA CCCGGTCCCTCTGGGGTGGGTTCCCTGGGAAACGAAAAAGAGTCCCTTTTTTCAAGCC TTGGGGCCCTTGATTTGGCCACTGAAAAAGGGGCCCGCAATGCGCAAAACCTTGGGGCA AACCC
Restriction Sites:	Please inquire
ACCN:	BC005259
Insert Size:	1300 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:	BC005259.1 , AAH05259.1
RefSeq Size:	1274 bp
Locus ID:	7518
Cytogenetics:	5q14.2
Protein Families:	Druggable Genome
Protein Pathways:	Non-homologous end-joining

Gene Summary:

The protein encoded by this gene functions together with DNA ligase IV and the DNA-dependent protein kinase in the repair of DNA double-strand breaks. This protein plays a role in both non-homologous end joining and the completion of V(D)J recombination. Mutations in this gene can cause short stature, microcephaly, and endocrine dysfunction (SSMED). Alternate transcript variants such as NM_022406 are unlikely to be expressed in some individuals due to a polymorphism (rs1805377) in the last splice acceptor site. [provided by RefSeq, Oct 2019]