

Product datasheet for **SC126125**

XRCC4 (NM_022550) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XRCC4 (NM_022550) Human Untagged Clone
Tag:	Tag Free
Symbol:	XRCC4
Synonyms:	SSMED
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_022550 edited
 GGGGACCGGAAGTAGAGTCACGGAGAGGTAGGATCCGGAAGTGGGGCTGCCTCTTTAAAT
 AACAAAAATCTGAGGTATTAAGAAATGGAGAGAAAAAATAGCAGAATCCACCTTGTTTCT
 GAACCCAGTATAACTCATTTTCTACAAGTATCTTGGGAGAAAACACTGGAATCTGGTTTT
 GTTATTACACTTACTGATGGTCATTGAGCATGGACTGGGACAGTTTCTGAATCAGAGATT
 TCCCAAGAAGCTGATGACATGGCAATGGAAAAAGGAAATATGTTGGTGAAGTGAAGAAA
 GCATTGTTGTGAGGAGCAGGACCAGCTGATGTATACACGTTTAATTTTTCTAAAGAGTCT
 TGTATTCTTCTTTGAGAAAAACCTGAAAGATGTCTCATTTCAGACTTGGTTCCTCAAC
 CTAGAGAAAGTTGAAAACCCAGCTGAAAGTCATTAGAGAACTTATTTGTTATTGCTTGGAC
 ACCATTGCAGAAAATCAAGCCAAAAATGAGCACCTGCAGAAAAGAAAATGAAAGGCTTCTG
 AGAGATTGGAATGATGTTCAAGGACGATTTGAAAAATGTGTGAGTGCTAAGGAAGCTTTG
 GAGACTGATCTTTATAAGCGTTTATTCTGGTGTGAATGAGAAGAAAACAAAAATCAGA
 AGTTTGCATAATAAATTATTAATGCAGCTCAAGAACGAGAAAAGGACATCAAACAAGAA
 GGGGAAACTGCAATCTGTTCTGAAATGACTGCTGACCGAGATCCAGTCTATGATGAGAGT
 ACTGATGAGGAAAGTAAAACCAAACTGATCTCTCTGGGTGGCTTCAGCTGCTGTAAGT
 AAAGATGATTCCATTATTTCAAGTCTTGATGTCAGTCTGATATTGCACCAAGTAGAAAAAGG
 AGACAGCGAATGCAAAGAAATCTTGGGACAGAACCTAAAATGGCTCCTCAGGAGAATCAG
 CTTCAAGAAAAGGAAAATCTAGGCCTGATTTCTCACTACCTGAGACGTCTAAAAAGGAG
 CACATCTCAGCTGAAAACATGTCTTTAGAACTCTGAGAAACAGCAGCCAGAACGACCTC
 TTTGATGAGATTTAACAGTCTCAAAAAATCTTTGATGTTCACTAGACTATGTTTTCTAT
 TCATTTCTTTAAAATGAAAAAGGAGAATTTCAAGTCAGCAGCCGCTATTACCGTATCTTA
 CAATTTAATTACATACACAGTGAATTGAAACCATTGTGCAAAAATGGATTACACATGTATA
 CAAAGATACGATTTGATGATGACTGGCACATTATTCTAAACTATTCATTGAGCATGCC
 TATAATTACATAAATTGATGAGACTTTTTGTTGCAAAGGACACATTTATCATATTTCATT
 CACACATATTATGTGATAGCTGTCCAACATCCTGTCTGGGAAGATTTTGAAAACAGGA
 CAAAGAAAACATCACTTTAAAATGTCTTTCAGCTTTTTTTGAATAGACGTATTCAAACATA
 TTCTGAACATTGATGTTTGAACATTTTAAATTTGTGTGATGATGTAGAAAATATAATTTTA
 GTTTGTACATAAACATTGTGAAAATCTGATAATAAAATTTTTGATACACTAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_022550 unedited
 CCCGCGTTTCAGATTTTGTAAATACGACTTCACTATAGGGCGGCCGCAATTCGCCATTA
 CGGCCGGGACCGCAAGTAGATCACGGAGGGGTGGATCCGGGAGTGGGGCTGCCTCTT
 TAAATAACAAAAATCTGAGGTATTAAGAAATGGAGAGAAAAAATAGCAGAATCCACCTTG
 TTTCTGAACCCAGTATAACTCATTTTCTACAAGTATCTTGGGAGAAAACACTGGAATCTG
 GTTTTGTATGACACTTACTGATGGTCATTGAGCATGGACTGGGACAGTTTCTGAATCAG
 AGATTTCCCAAGAAGCTGATGACATGGCAATGGAAAAAGGAAATATGTTGGTGAAGTGA
 GAAAAGCATTGTTGTGAGGAGCAGGACCAGCTGATGTATACACGTTTAATTTTTCTAAAG
 AGTCTTGTATTCTTCTTTGAGAAAAACCTGAAAGATGTCTCATTTCAGACTTGGTTCCT
 TCAACCTAGAGAAAGTTGAAAACCCAGCTGAAAGTCATTAGAGAACTTATTTGTTATTGCT
 TGGACACCATTGCAGAAAATCAAGCCAAAAATGAGCACCTGCAGAAAAGAAAATGAAAGGC
 TTCTGAGAGATTGGAATGATGTTCAAGGACGATTTGAAAAATGTGTGAGTGCTAAGGAAG
 CTTTGGAGACTGATCTTTATAAGCGTTTATTCTGGTGTGAATGAGAAGANACAAAAAT
 CAGAAGTTTGCATAATAAATTATTAATGCAGCTCAAGGACGAGGAAAAGACATCAAACA
 AGAAGGGGAAACTGCAATCTGTTCTGAAATGACTGCTGACCGAGTCCAGTCTATGATGAG
 AGTACTGATGAGGGAAGTAAAACCAACTGATCTCTCTGGGTGGCTTCAGCTGCTGTAA
 GTAAGATAN

Restriction Sites: Please inquire
ACCN: NM_022550

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_022550.1 , NP_072044.1
RefSeq Size:	1707 bp
RefSeq ORF:	1005 bp
Locus ID:	7518
UniProt ID:	Q13426
Cytogenetics:	5q14.2
Protein Families:	Druggable Genome
Protein Pathways:	Non-homologous end-joining
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site in the 5' UTR compared to variant 1. Variants 1 and 3 encode the same isoform (1).</p>