

Product datasheet for **RC226839**

XPC (NM_001145769) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | XPC (NM_001145769) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | XPC |
| Synonyms: | RAD4; XP3; XPCC |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>RC226839 representing NM_001145769
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCTCGGAAACGCGCGCCGGCGGGGAGCCGCGGGGACGCGAACTGCGCAGCCAGAAATCCAAGGCCA
 AGAGCAAGGCCCGCGTGTAGGAGGAGGAGGATGCCTTTGAAGATGAGAAACCCCAAAGAAGAGCCT
 TCTCTCAAAGTTTCACAAAGAAAGAGGAAAAGAGGCTGCAGTCATCCTGGGGTTTCAGCAGATGGTCCA
 GCAAAAAAGAAAGTGCCCAAGGTGACTGTTAAATCTGAAAACCTCAAGGTTATAAAGGATGAAGCCCTCA
 GCGATGGGGATGACCTCAGGGACTTTCCAAGTGACCTCAAGAAGGCACACCATCTGAAGAGAGGGCTAC
 CATGAATGAAGACAGCAATGAAGAAGAGGAAAGAAAGTAAAATGATTGGGAAGAGGCGAAGACAAGAGAA
 AGAAGTAAAAGATAAACTGGAGTTTGAGACATATCTTCGGAGGGCGATGAAACGTTTCAATAAAGGGG
 TCCATGAGGACACACACAAGGTTACCTTCTCTGCCTGTAGCAAATGGCTTCTATCGAATAACATCTG
 CAGCCAGCCAGATCTGCATGCTATTGGCCTGTCCATCATCCAGCCCGCTTACCAGAGTGTGCCTCGA
 GATGTGGACACCTACTACCTCTCAAACCTGGTGAAGTGGTTTCATTGGAACATTTACAGTTAATGCAGAAC
 TTTTCAGCCAGTGAACAAGATAACCTGCAGACTACATTGGAAGGAGATTTGCTATTTACTCTGCTCGAGA
 TGATGAGGAATTGGTCCATATATTCTTACTGATTCTCCGGGCTCTGCAGCTTTGACCCGGCTGGTATTG
 TCTCTACAGCCAATTCCTCTGAAGTCAGCAACAGCAAAGGGAAAGAAACCTTCCAAGGAAAGATTGACTG
 CGGATCCAGGAGGCTCCTCAGAACTTCCAGCCAAGTTCTAGAAAACACACCAAACCAAGACCAGCAA
 AGGAACCAAAAGAGGAAAACCTTTGCTAAGGGCACCTGCAGGCCAAGTGCCAAAGGGAAGAGGAACAAG
 GGAGGCAGAAAGAAACGGAGCAAGCCCTCCTCCAGCGAGGAAGATGAGGGCCAGGAGACAAGCAGGAGA
 AGGCAACCCAGCGACGTCCGATGGCCGGGAGCGGGTGGCTCCAGGGTGTCTATAAAGAGGAGAA
 TGGGAGTGATGAGGCTGGCAGCGGCTCTGATTTTGTAGCTCTCAGTGGAGAAGCCTCTGATCCCTCTGAT
 GAGGATTCGGAACCTGGCCCTCCAAAGCAGAGGAAAGCCCGCTCCTCAGAGGACAAAGCTGGGTCCA
 AGAGTGCCTCCAGGACCCATCGTGGGAGCCATCGTAAGGACCAAGCTTGCCAGCGGCATCCTCAAGCTC
 TTCAAGCAGTAAAAGAGGCAAGAAAATGTGCAGCGATGGTGAAGAGCAGAAAAAGAAGCATAGCTGGT
 ATAGACCAGTGGCTAGAGGTGTTCTGTGAGCAGGAGGAAAAGTGGGTATGTGTAGACTGTGTGCACGGT
 TGGTGGGCCAGCCTCTGACCTGTTACAAGTACGCCACCAAGCCCATGACCTATGTGGTGGCATTGACAG
 TGACGGCTGGGTCCGAGATGTCACACAGAGGTACGACCCAGTCTGGATGACAGTACCCGCAAGTCCCGG
 GTTGATGTGAGTGGTGGCCGAGACCTTGAGACCATAACCAGAGCCATTTATGGACAGGAGAAGAAAG
 AAGACTTGGAGTTTCAGGCAAAACACATGGACCAGCCTTTGCCACTGCCATTGGCTTATAAAGAACCA
 CCCTCTGTATGCCCTGAAGCGGCATCTCCTGAAATATGAGGCCATCTATCCCAGACAGCTGCCATCCTT
 GGGTATTGCTGTGGAGAAGCGGTCTACTCCAGGGATTGTGTGCACACTCTGCATTCCAGGGACACGTGGC
 TGAAGAAAGCAAGAGTGGTGGAGGCTTGGAGAAGTACCCTACAAGATGGTGAAGGCTTTTCTAACCGTGC
 TCGAAAGCCCGACTTGTGAGCCCCAGCTGCGGGAAGAAAATGACCTGGGCCTGTTTGGCTACTGGCAG
 ACAGAGGAGTATCAGCCCCAGTGGCCGTGGACGGGAAGGTGCCCCGGAACGAGTTTGGGAATGTGTACC
 TCTTCTGCCAGCATGATGCCTATTGGCTGTGTCCAGCTGAACCTGCCAATCTACACCGGTGGCCCG
 CAAGCTGGACATCGACTGTGTCAGGCCATCACTGGCTTTGATTCCATGGCGGCTACTCCCATCCCGTG
 ACTGATGGATAACATCGTCTGCGAGGAATTCAAAGACGTGCTCCTGACTGCCTGGGAAAATGAGCAGGCAG
 TCATTGAAAGGAAGGAGAAGGAGAAAAGGAGAAGCGGGCTCTAGGAACTGGAAGTTGCTGGCCAAAGG
 TCTGCTCATCAGGGAGAGGCTGAAGCGTCGCTACGGGCCAAGAGTGAGGCAGCAGCTCCCCACACAGAT
 GCAGGAGGTGGACTCTTCTGATGAAGAGGAGGGGACCAGCTCTCAAGCAGAAGCGGCCAGGATACTGG
 CTGCTCCTGGCCTCAAACCGAGAAGATGAAGAAAAGCAGAAGCTGAAGGGTGGGCCCAAGAACCA
 AAGGAAAAGAAAGCAGCAGCTTCCACCTGTTCCCATTTGAGCAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226839 representing NM_001145769
 Red=Cloning site Green=Tags(s)

MARKRAAGGEPGRGRELRSQKSKAKSKAREEEEEDAFEDEKPPKSLLSKVSQGKRKRGCSPGGSSADGP
 AKKKVAKVTVKSENKVIKDEALSDGDDLRFPSDLKKAHHLKRGATMNEDSNEEEEESENDWEEAKTRE
 RSEKIKLEFETYLRAMKRFNKGVHEDTHKVHLLCLLANGFYRNNICSQPDLHAIGLSIIPARFTRVLP
 DVDTYYLSNLVKWFIGFTVNAELSAEQDNLQTLERRFAIYSARDDEELVHIFLLILRALQLLTRLVL
 SLQPIPLKSATAKGGKPSKERLTADPGGSSETSSQVLENHTKPKTSKGTKQEETFAGKTCRPSAKGKRNK
 GGRKKRSKPSSEEDGPGDKQEKATQRRPHGRERRVASRVSYKEESGSDGDEAGSGDFELSSGEASDPSD
 EDSEPGPPKQRKAPAPQRTKAGSKSASRTHRGSHRKDPSLPAASSSSSSSKRGKMCSDGEKAEKRSIAG
 IDQWLEVFCEQEEKWVCVDCVHGVVQPLTCYKYATKPMYVVGIDSDGWVRDVTQRYDPVWMTVTRKCR
 VDAEWAAETLRPYQSPFMDREKKEDLEFQAKHMDQPLPTAIGLYKNHPLYALKRHLLKYEA IYPETAAIL
 GYCRGEAVYSRDCVHTLHSRDTWLKARVVRLGEVPYKMKVGF SNRARKARLAEPQLRENDLGLFGYWQ
 TEEYQPPVAVDGKVPNEFGNVYLFPSMMPIGCVQLNLPNLHRVARKLDIDCVQAITGDFHGGYSHPV
 TDGYIVCEEFKDVLTLAWENEQAVIERKEKEKKEKRALGNWKLAKGLLIRERLKRRYGPKSEAAAPHTD
 AGGGLSSDEEEGTSSQAEARILAAASWPQNREDEEKQKLGKGGPKTKREKAAASHLFPFEQL

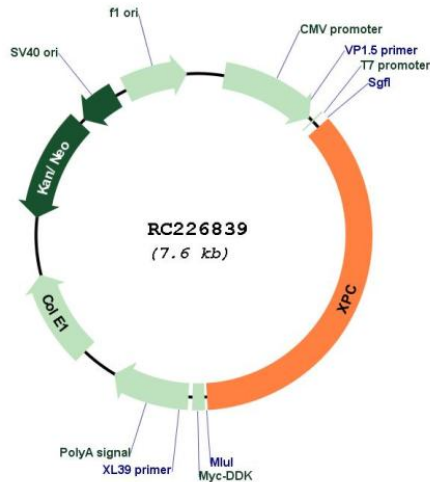
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001145769

ORF Size: 2709 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_001145769.1](#), [NP_001139241.1](#)

RefSeq ORF: 2712 bp

Locus ID: 7508

Cytogenetics: 3p25.1

Protein Families: Druggable Genome

Protein Pathways: Nucleotide excision repair

MW: 101.7 kDa

Gene Summary: The protein encoded by this gene is a key component of the XPC complex, which plays an important role in the early steps of global genome nucleotide excision repair (NER). The encoded protein is important for damage sensing and DNA binding, and shows a preference for single-stranded DNA. Mutations in this gene or some other NER components can result in Xeroderma pigmentosum, a rare autosomal recessive disorder characterized by increased sensitivity to sunlight with the development of carcinomas at an early age. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2017]