

## Product datasheet for SC117234

### XPC (NM\_004628) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	XPC (NM_004628) Human Untagged Clone
Tag:	Tag Free
Symbol:	XPC
Synonyms:	p125; RAD4; XP3; XPCC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117234 sequence for NM_004628 edited (data generated by NextGen Sequencing)

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ATGGCTCGGAAACGCGCGCCGGCGGGGAGCCGCGGGGACGCGAACTGCGCAGCCAGAAA
TCCAAGGCCAAGAGCAAGGCCCGCGGTGAGGAGGAGGAGGATGCCTTTGAAGATGAG
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TCCTCAAGCTCTTCAAGCAGTAAAAGAGGCAAGAAAATGTGCAGCGATGGTGAGAAGGCA  
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 AAGAAGACCAAAAGGGAAAAGAAAGCAGCAGCTTCCCACCTGTTCCCATTTGAGAAGCTG  
 TGA

Clone variation with respect to NM\_004628.4  
 2061 g=>a;2815 c=>a

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004628 unedited  
 AATCCGGCGCCCGTTGCCGCATTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGC  
 AGAGCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGCGA  
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 CGGGGACCGAACTGCGCAGCCAGAAATCCAAGGCCAAGAGCAAGGCCCGGCGTGAGGAG  
 GAGGAGGAGGATGCCTTTGAAGATGAGAAACCCCAAAGAAGAGCCTTCTCTCAAAGTT  
 TCACAAGGAAAGAGGAAAAGAGGCTGCAGTCATCCTGGGGTTTACGAGATGGTCCAGCA  
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 GCCCTCAGCGATGGGGATGACCTCAGGGACTTTCCAAGTGACCTCAAGAAGGCACACCAT  
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 GGCCTGGCCATTATCCCAGCCGTTTTTCACAGATGCTGCCTCGAGAGGTGAACACCTATA  
 CCCTTAAACGGGGGAAGGGTTCATG

<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004628 unedited  GGTAATCTATGNACGCGCCGCATTCTAGATCGAGTTTTTTTTTTTTTTTTTTTTAGAT  AAATGCTTTATTATTTTCTCAAATGTTATAAAAGTCATTTCTCCTTAGTACAGAGAGCT  TTATACATTTTATCTAGTAATGAATACAATCTAGTTTAACTGATCTATTTTACTAACA  TTTCCTTAATTTTCAATTCGATTTTTCCTTTTCTTTCCTGATTTTAGCTTTTTTAGGC  TTCTGTCAACCACAAAATGTTACTTGAAAAGTATCCAGCAGATGACCTGTACTTCTC  TGCTCTCTCCCTACTGCAAAGAGGCAGTGAGGGCAGCATTAGTAAGCCTGACTCAGGGG  AAGGTAAGTGGCCTGCAGAGAAATGGTCTAGGTCGCAACCGAGGCGAGTGAACCTGTC  GGACAGATGAAGACTCTAACTGGAAGAAACGATCAGCGCATTACGGATGCACCACCATC  CAGAAATCTCCCGTGGCTTCCATACAAAACTGATGTTTCTAAAGATGGAAAGAACAGG  TCTAGGAGGCAGAAGAGTATCTCCTAGCAAAGTGTCTGTAGCTCAAAGGGTGAGTGGGC  TTTGGTAGCAAAAAGCTTTGAAGGCTTACCCTGGGTGAATCTGACAAGGGCTGGAGCCA  GACGGGACCTGCAGCACCTCCTCAGCTTGGCCTCGTCTCCCTGACCCCGCCTCCGTGCA  TGCTGCCTCAGTTTGCCTTCTCAGCAGAGAAGCCCCACCACCAGGGGCTGGGCATGCC  AGGGCAGGTGTGGGGCCTGTAGTGGGGCAGCAGCAACTGGTGGGGTGCCCTCTAGTGGG  CGCTCAGCTCACAGCTTCTCAAATGGGGACCAGGTGGGAAGCTGCTGNCTTCTTTTTCC  TTTTGGTCTTCTGGGGCCC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004628
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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_004628.3</a></u> , <u><a href="#">NP_004619.2</a></u>
<b>RefSeq Size:</b>	3714 bp

RefSeq ORF:	2823 bp
Locus ID:	7508
UniProt ID:	<u>Q01831</u>
Cytogenetics:	3p25.1
Domains:	Rad4
Protein Families:	Druggable Genome
Protein Pathways:	Nucleotide excision repair

**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]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).