

## Product datasheet for **MC222687**

### Xpc (NM\_009531) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Xpc (NM_009531) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Xpc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222687 representing NM\_009531  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCCAAGCGCACCGCAGACGGAAGCGGGCGGAAGCGGGCCAGAAAACCGAGGACAACAAGTAG  
 CCCGGCACGAGGAGAGCGTTGCGGATGACTTTGAAGATGAGAAGCAGAAAACCCGAAGGAAGAGCTTTT  
 CCCGAAAGTCTCTCAAGGAAAGAGGAAGAGGGGCTGCAGTGATCCAGGGACCCACAAATGGTGACGCA  
 AAAAAGAAAGTGGCCAAAGCCACTGCTAAATCCAAGAATCTCAAGGTTCTGAAGGAGGAAGCACTCAGCG  
 ACGGGGATGACTTCCGGGACTCACCAGCTGACTGCAAGAAGGCAAGAAACCCAAAAAGCAAGGTGGT  
 GGACCAAGGCACTGATGAAGATGACAGTGAGGATGACTGGGAGGAGGTGGAAGAGCTTACTGAACCTGTG  
 CTGGACATGGGAGAAAATCTGCCACCTACCGTCTGACATGCCTGTGAAGGCGGTGGAGATTGAAATTG  
 AAACACCACAGCAGGCGAAAGAACGGGAAAGAAGTGAAGAATAAAGATGGAGTTTGAACATACCTGCG  
 GAGGATGATGAAGCGTTTCAATAAAGAAGTACAGGAGAACATGCACAAGTTTACCTGCTGTGCCTGCTG  
 GCCAGTGGCTTCTATCGAAATAGCATCTGCCGACAGCCAGATCTGCTGGCATTGGCCTCTCCATCATT  
 CAATTCGCTTTACCAAGGTGCCACTTCAAGATAGGGATGCCTACTACCTTCAAACCTGGTAAAGTGGTT  
 CATCGAACCTTCACTGTCAACGCTGACCTTTCAGCCAGCGAGCAGGACGACCTGCAGACCACCTTGGAA  
 AGGAGGATTGCCATTTACTCTGCGAGGGATAATGAAGAGTTGGTCCATATATTTCTTCTGATTCTTCGGG  
 CTCTGCAGCTGCTCACCCGGCTGGTCTTGTCTCTGCAGCCATTCACCTGAAGTCAGCTGTGACAAAAGG  
 GAGGAAATCTTCAAGGAGACATCTGTAGAGGGTCTGGAGGTTCTTCAAGACTCTAGTAACAGTCCA  
 GAAAGCCACAACAACCTACGACCAGCAGGAGAATCAAAGAAGAAGAAACCTGTCTGAGGGCAGAGGCA  
 AAGACCAGCGCAGGGGGAAGAGAGGCACAGGCACTGCGGGCAGCAGGCAGCGGAGGAAGCCCTTTCGCA  
 CGAGGGAGAGGAGGCGGAGCAGAAAGTCCAGGGCCGTCACATGCCCGGAAGCGGCGTGTGGCTGCCAAG  
 GTGTCATACAAAGAGGAGAGTGAGAGCGATGGGGCAGGCAGCGGCTCTGACTTTGAACCGTCCAGTGGG  
 AGGGCCAGCATTCTCTGATGAGGATTGTGAGCCTGGCCCTCGCAAGCAGAAGAGGGCCTCAGCTCTCA  
 GAGGACAAAGGCTGGGTCTAAGAGTGCTTCAAGACCCACGCGGAAGCCAGTGTGAGCCGTCAAGCTTT  
 CCGGAGGCGTCTTCAAGCTTTCAGGCTGTAAAGAGGGCAAGAAGGTTTCCAGTGGTGTGAAAGAGATGG  
 CAGATAGGAAACCTGCTGGTGTAGACCAGTGGCTGGAGGTGTACTGTGAGCCACAGGCAAGTGGGTGTG  
 TGTGGACTGTGTACATGGTGTGGTGGGCCAGCCTGTGGCCTGTTACAAATATGCCACCAACCCATGACC  
 TATGTTGTAGGCATTGACAGTGATGGCTGGTCCGAGATGTTACTCAGAGGTATGACCCAGCCTGGATGA  
 CCGCAACCCGCAAGTGCCGGTTGATGCTGAGTGGTGGGCTGAGACCTTGAGACCCTATCGGAGCCTACT  
 TACGGAGAGGGAGAAGAAGGAAGACCAGGAGTTTCAGGGCAAGCACCTGGACCAGCCTTGGCCACCTCC  
 ATCAGCACATACAAGAACCACCCTCTGTATGCCCTGAAGCGCCACCTCTTGAAATTCAGGCTATCTACC  
 CTGAGACAGCTGCGGTGCTCGGGTATTGTGCTGGAGAAGCAGTCTATTCCAGGGATTGCGTGCATACCTT  
 GCACTCCAGGGACACATGGCTGAAGCAAGCAAGAGTGGTGGGCTTGGAGAAGTGGCCTATAAGATGGTG  
 AAAGGCTTCTTAACCGTGCCCGAAAGCCCGGCTCTCGGAGCCCAAGTGCATGACCACAACGACTTGG  
 GCCTCTATGGTCACTGGCAGACGGAAGAGTATCAGCCTCCTATAGCTGTGATGGGAAGGTGCCTCGGAA  
 TGAGTTTGGGAACGTGTACCTTCTCTGCCAGCATGATGCCCTGGGCTGTGTCAGATGACCCAGCCTGCCT  
 AACCTGAACCGGGTGGCAGCAAGCTGGCATTGACTGCGTGCAGGCCATCACTGGCTTCGATTTCCATG  
 GAGGCTATTGCCATCCAGTAAGTATGCTGCTGTGAGGAATTCAGAGACGTGCTGCTGGCTGC  
 TTGGGAGAATGAACAGGCCATCATTGAAAAGAAGGAGAAGGAGAAAAAGGAAAAGCGGGCCTGGGGAAC  
 TGGAAAGCTGCTGGTCAAGGACTCCTCATCAGAGAGAGGCTGAAACTCCGCTATGGGGCCAAAGCGGAGG  
 CAGCAGCTCCCCATGCTGCTGGAGGCGGACTCTTCTGATGAAGAGGAAGGGACCAGTTACAAGCAGA  
 AGCAGCCAGAGTCTGGTGCCTCCTGGCCACAGAACCGAGAGGATCCAGAACAGAAGTCCGAGTACACT  
 AAGATGACTCGGAAGAGGCGGGCCAGAGGCTTCCCACCTCTTCCGTTTGAGAAGCT**GTA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_009531

<b>Insert Size:</b>	2793 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>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>	<a href="#">NM_009531.2</a> , <a href="#">NP_033557.2</a>
<b>RefSeq Size:</b>	3634 bp
<b>RefSeq ORF:</b>	2793 bp
<b>Locus ID:</b>	22591
<b>UniProt ID:</b>	<a href="#">P51612</a>
<b>Cytogenetics:</b>	6 D1
<b>Gene Summary:</b>	Involved in global genome nucleotide excision repair (GG-NER) by acting as damage sensing and DNA-binding factor component of the XPC complex. Has only a low DNA repair activity by itself which is stimulated by Rad23b and Rad23a. Has a preference to bind DNA containing a short single-stranded segment but not to damaged oligonucleotides. This feature is proposed to be related to a dynamic sensor function: XPC can rapidly screen duplex DNA for non-hydrogen-bonded bases by forming a transient nucleoprotein intermediate complex which matures into a stable recognition complex through an intrinsic single-stranded DNA-binding activity.[UniProtKB/Swiss-Prot Function]