

## Product datasheet for **SC314914**

### **XPF (ERCC4) (NM\_005236) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	XPF (ERCC4) (NM_005236) Human Untagged Clone
Tag:	Tag Free
Symbol:	XPF
Synonyms:	ERCC11; FANCQ; RAD1; XFEPS; XPF
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_005236 edited
ATGGAGTCAGGGCAGCCGGCTCGACGGATTGCCATGGCGCCGCTGCTGGAGTACGAGCGA
CAGCTGGTGTCTGGAAGTCTCGACACTGACGGGCTAGTAGTGTGCGCCCGCGGGCTCGGC
GCGGACCCGGCTCCTCTACCACTTTCTCCAGCTGCACTGCCACCCAGCCTGCCTGGTGTCTG
GTGCTCAACACGCAGCCGGCCGAGGAGGAGTATTTTATCAATCAGCTGAAGATAGAAGGA
GTTGAACACCTCCCTCGCCGTGTAACAAATGAAATCACAAGCAACAGTCGCTATGAAGTT
TACACACAAGGTGGTGTATATTTGCGACAAGTAGGATACTTGTGGTTGACTTCTTGACT
GATAGAATACCTTCAGATTTAATTAAGTGGCATCTTGGTGTATAGAGCCACAGAATAATC
GAGTCTTGTCAAGAAGCATTTCATCTTGGCCTCTTTCCGACAGAAAAACAACGTGGTTTTT
ATTAAAGCTTTTACAGACAATGCTGTTGCCTTTGATACTGGTTTTTGTGCATGTGGAAAGA
GTGATGAGAAATCTTTTTGTGAGGAACTGTATCTGTGGCCAAGTTCCATGTAGCAGTA
AACTCATTTTTAGAACAGCACAAACCTGAAGTTGTAGAAATCCATGTTTCTATGACACCT
ACCATGCTTGCTATACAGACTGCTATACTGGACATTTAAATGCATGTCTAAAGGAACTA
AAATGCCATAACCCATCGCTTGAAGTGAAGATTTATCTTTAGAAAATGCTATTGAAAA
CCTTTTGACAAGACAATCCGCCATTATCTGGATCCTTTGTGGCACCAGCTTGGAGCCAAG
ACTAAATCCTTAGTTTCAGGATTTGAAGATATTACGAACTTTGCTGCAGTATCTCTCTCAG
TATGATTGTGTCACATTTCTTAATCTTCTGGAATCTCTGAGAGCAACGGAAGGCTTTT
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GCAAGGGTTTATCATCTTCCAGATGCCAAAATGAGTAAAAAGAAAAAATATCTGAAAAA
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TGGGAGGCACTGACTGAAGTATTAAGAAATTTGAGGCAGAAAATAGGAGAGTGAAGCT
CTTGGTGGTCCAGTCAAGTACTGATTTGTGCAAGTATGACCGAACATGTTCCAGCTG
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AGAATTAGGAAATCTCACAAAAGACCTAAAGACCCCAAAAAACAAGAACGGGCTTCTACC
AAAGAAAGAACCTCAAAAAAGAAAAACGGAAGTTGACCTTAACTCAAATGGTAGGAAAA
CCTGAAGAACTGGAAGAGGAAGGAGATGTCGAGGAAGGATATCGTCGAGAAATAAGCAGT
AGCCCAGAAAGCTGCCCGGAAGAAATTAAGCATGAAGAATTTGATGTAATTTGTCATCG
GATGCTGCTTTCCGAATCCTGAAAGAACCCTCACTATCATCCATCCGCTTCTGGGTTGC
AGCGACCCCTATGCTCTGACAAGGTTACTACATGAAGTGGAGCCAAGATACGTGGTTCTT
TATGACGCAGAGCTAACCTTTGTTCCGGCAGCTTGAATTTACAGGGCAGTAGGCCTGGG
AAACCTCTGAGGGTTTACTTTCTTATATACGGAGGTTCAACTGAGGAACAACGCTATCTC
ACTGCTTTGCGGAAAGAAAAGGAAGCTTTTGAAAACTCATAAGGGAAAAAGCAAGCATG
GTTGTCCCTGAAGAAAGAGAAGGCAGAGATGAAACAACTTAGACCTAGTAAGAGGCACA
GCATCTGCAGATGTTTCCACTGACACTCGGAAAGCCGGTGGCCAGGAACAGAATGGTACA
CAGCAAAGCATAGTTGTGGATATGCGTGAATTTGAAAGTGAAGTCCATCTCTGATCCAT
CGTCGGGGCATTGACATTGAACCCGTGACTTTAGAGGTTGGAGATTACATCCTCACTCCA
GAAATGTGCGTGGAGCGCAAGAGTATCAGTGATTTAATCGGCTCTTTAAATAACGGCCGC
CTCTACAGCCAGTGCATCTCCATGTCCCGCTACTACAAGCGTCCCGTGCTTCTGATTGAG
TTTGACCTAGCAAGCCTTTCTCTCACTTCCGAGGTGCCTTGTTCAGGAGATCTCC
AGCAATGACATTAGTTCCAACTCACTTCTTCACTTCACTTCCCCAGACTACGGATT
CTCTGGTGCCCTCTCCTCATGCAACGGCGGAGTTGTTTGGAGGCTGAAACAAAGCAAG
CCACAGCCTGATGCGGCGACAGCACTGGCCATTACAGCAGATTCCGAAACCTTCCCGAG
TCAGAGAAGTATAATCCTGGTCCCAAGACTTCTTGTAAAAATGCCAGGGGTGAATGCC
AAAACTGCCGCTCCTTGTGACCCACGTTAAGAACATCGCAGAATTAGCAGCCCTGTCA
CAAGACGAGCTCAGGATTTCTGGGAATGCTGCAAATGCCAAACAGCTTTATGATTTT
ATTCACACCTCTTTGCGAGAAGTCGTATCAAAGGAAAAGGGAAAAAGTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_005236 unedited CTCCACAGAGCACAACGACATACCACTAGGGCGGCCGCGAACTCGGCACGAGACGGAGCC AGGGCAGCCGGCCGACGGATCGCCACGGCGCCGCGCCGGAGCAGGACGACAGCCGGT GCTGGAACCGCTCGACTGACGGGCTAGTAGCGTGCGCCCGGGCTCGGCGCGGACCG GCCCTTACCACTACCTCCAGCCGCACTGCCACCCAGCCTGCCTGGTGTGGTCTCAA CACGAGCCGGCCGAGGAGGAGTATTTTATCAATCAGCTGAAGATAGAAGGAGTTGAACA CCTCCCTCGCCGTAAACAAATGAAATCACAAGCAACAGTCGCTATGAAGTCTACACACA AGGTGGTGTATATTTGCGACAAGTAGGATACTTGTGGTTGACTTCTTGACTGATAGAAT ACCTTCAGATTTAATTAAGTGGCATCTTGGTGTATAGAGCCACAGAATAATCGAGTCTTG TCAAGAAGCATTATCTTGCCTCTTTTCGCCAGAAAAACAAACGTGGTTTTATTAAGC TTTCACAGACAATGCTGTGCTTTGATACTGGTTTTTGTGATGTGAAAGAGTGATGAG AAATCTTTTTGTGAGGAACTGTATCTGTGGCCAAGGTTCCATGTAGCAGTAAACTATT TTTAGAACAGCACAACTGAAGTTGTAGAAATCCATGTTTCTATGACACCTACCATGCT TGCTATACAGACTGCTATACTGGACATTTAAATGCATGTCTAAAGGAACTAAAAAGCCA TAACCCATCGCTTGAAGTGGAGATTTATCTTTAGAAAATGCTATTGGAAAACCTTTTGAC AGACATCCGCCATTATTCTGGATCCTTTGTGCACAGCTTGAGCCAGACTAATCCTAGTC AGGATTGGAGATTTACGACTTGCTGCAGTA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_005236
<b>Insert Size:</b>	5500 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>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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_005236.1</a> , <a href="#">NP_005227.1</a>
<b>RefSeq Size:</b>	2751 bp
<b>RefSeq ORF:</b>	2751 bp
<b>Locus ID:</b>	2072
<b>UniProt ID:</b>	<a href="#">Q92889</a>
<b>Cytogenetics:</b>	16p13.12

**Protein Families:** Druggable Genome

**Protein Pathways:** Nucleotide excision repair

**Gene Summary:** The protein encoded by this gene forms a complex with ERCC1 and is involved in the 5' incision made during nucleotide excision repair. This complex is a structure specific DNA repair endonuclease that interacts with EME1. Defects in this gene are a cause of xeroderma pigmentosum complementation group F (XP-F), or xeroderma pigmentosum VI (XP6). [provided by RefSeq, Mar 2009]