

Product datasheet for **SC106224**

XPD (ERCC2) (NM_000400) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XPD (ERCC2) (NM_000400) Human Untagged Clone
Tag:	Tag Free
Symbol:	XPD
Synonyms:	COFS2; EM9; TFIIH; TTD; TTD1; XPD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC106224 sequence for NM_000400 edited (data generated by NextGen Sequencing)

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ATGAAGCTCAACGTGGACGGGCTCCTGGTCTACTTCCCGTACGACTACATCTACCCCGAG
CAGTTCTCCTACATGCGGGAGCTCAAACGCACGCTGGACGCCAAGGGTCATGGAGTCTTG
GAGATGCCCTCAGGCACCGGGAAGACAGTATCCCTGTTGGCCCTGATCATGGCATAACCAG
AGAGCATATCCGCTGGAGGTGACCAAACCTCATCTACTGCTCAAGAAGTGTCCAGAGATT
GAGAAGGTGATTGAAGAGCTTCGAAAGTTGCTCAACTTCTATGAGAAGCAGGAGGGCGAG
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GTGACACCCCTGCGCTTTGGGAAGGACGTCGATGGGAAATGCCACAGCCTCACAGCCTCC
TATGTGCGGGCGCAGTACCAGCATGACACCAGCCTGCCCACTGCCGATTCTATGAGGAA
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GGCAACCTGGAGACCCTGCAGAAGACGGTCTCAGGATCAAAGAGACAGACGAGCAGCGC
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AGTACCAGTACATGGAGAGCACCGTGGCTCCTGGTATGAGCAGGGGATCCTTGAGAAC
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CTGGAGAAGTACCAGGAGCCTGCGAGAATGGCCGCGGGGCCATCCTGCTGTGAGTGGCC
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TTTGGCGTCCCCTACGTCTACACACAGAGCCGATTCTCAAGGCGGGCTGGAATACCTG
CGGGACCAGTTCAGATTCGTGAGAAATGACTTTCTTACCTTCGATGCCATGCGCCACGGG
GCCAGTGTGTGGGTGCGGCCATCAGGGGCAAGACGGACTACGGCCTCATGGTCTTTGCC
GACAAGCGGTTTGCCCGTGGGGACAAGCGGGGGAAGCTGCCCGCTGGATCCAGGAGCAC
CTCACAGATGCCAACCTCAACCTGACCGTGGATGAGGGTGTCCAGGTGGCCAAGTACTTC
CTGCGGCAGATGGCACAGCCCTTCCACCGGGAGGATCAGCTGGGCCTGTCCCTGCTCAGC
CTGGAGCAGCTAGAATCAGAGGAGACGCTGCAGAGGATAGAGCAGATTGCTCAGCAGCTC
TGA
    
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Clone variation with respect to NM_000400.3
 2133 c=>t;2251 a=>c

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000400 unedited TTTTGTATACGACTCACTATAGGGCGGCNCGCGATTTCGGCACCAGGTCCGGCCGGCGCCA TGAAGCTCAACGTGGACGGGCTCCTGGTCTACTCCCCTACGACTACATCTACCCCGAGC AGTTCTCCTACATGCGGGAGCTCAAACGCACGCTGGACGCCAAGGGTCATGGAGTCTGG AGATGCCCTCAGGCACCGGAAGACAGTATCCCTGTTGGCCCTGATCATGGCATAACCAGA GAGCATATCCGCTGGAGGTGACCAAACCTCATCTACTGCTCAAGAACTGTGCCAGAGATTG AGAAGGTGATTGAAGAGCTTCGAAAGTTGCTCAACTTCTATGAGAAGCAGGAGGGCGAGA AGCTGCCGTTTCTGGGACTGGCTCTGAGCTCCCGCAAAAACCTTGTGTATTACCCTGAGG TGACACCCTGCGCTTTGGGAAGGACGTCGATGGGAAATGCCACAGCCTCACAGCCTCCT ATGTGCGGGCGCAGTACCAGCATGACACCAGCCTGCCCACTGCCGATTCTATGAGGAAT TTGATGCCATGGGCGTGAGGTGCCCTCCCGCTGGCATCTACAACCTGGATGACCTGA AGGCCCTGGGGCGGCCAGGGCTGGTGCCATACTTCTTGCTCGATACTCAATCTGC ATGCCAATGTGGTGGTTTATAGTACCCTACCTCCTGGACCCCAAGATTGCAGACCTGG TGTNCAAGGAACTGGGCCCAAGCCGTCGTGTTCTTCGACGAGCCACAACATTNGACA CGTCTGCATCGACTTCATGAGCGTAAACCTCACCCGNNCGGACCTTNGACGNTGNNCAG GGCAACCTGNAGACCCTGCANAAGACGTTGCTCAGGATCAAAGAGACGACGAGCAGCGCC TGCCGNACGAGTACCGCCTGTGTTGGAGGGGCTGCNGNAGGCCANCGCGNCCGGNAGAAC GACNCCACCTGGCAACCCGTGCTGCCNACNAATGCTGAAGAAGCAATGCTGCTTCATCGA CGGCGAGCATTCTGG
Restriction Sites:	NotI-NotI
ACCN:	NM_000400
Insert Size:	2750 bp
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_000400.2 , NP_000391.1
RefSeq Size:	2355 bp
RefSeq ORF:	2283 bp
Locus ID:	2068
UniProt ID:	P18074
Cytogenetics:	19q13.32
Domains:	DEXDc2, HELICc2

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Nucleotide excision repair

Gene Summary: The nucleotide excision repair pathway is a mechanism to repair damage to DNA. The protein encoded by this gene is involved in transcription-coupled nucleotide excision repair and is an integral member of the basal transcription factor BTF2/TFIIH complex. The gene product has ATP-dependent DNA helicase activity and belongs to the RAD3/XPD subfamily of helicases. Defects in this gene can result in three different disorders, the cancer-prone syndrome xeroderma pigmentosum complementation group D, trichothiodystrophy, and Cockayne syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]
Transcript Variant: This variant (1) encodes the longer isoform (1).