

Product datasheet for **SC120091**

XPB (ERCC3) (NM_000122) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	XPB (ERCC3) (NM_000122) Human Untagged Clone
Tag:	Tag Free
Symbol:	XPB
Synonyms:	BTF2; GTF2H; RAD25; Ssl2; TFIIH; TTD2; XPB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_000122, the custom clone sequence may differ by one or more nucleotides

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ATGGGC AAAAGAGACCGAGCGGACCGCGACAAGAAGAAATCCAGGAAGCGGCACTATGAGGATGAAGAGG
ATGATGAAGAGGACGCCCGGGGACGACCCCTCAGGAAGCGGTTCCCTCGGCGGGGGAAGCAGGTGGA
TGAGTCAGGCACCAAAGTGGATGAATATGGAGCCAAGGACTACAGGCTGCAAATGCCGCTGAAGGACGAC
CACACCTCCAGGCCCTCTGGGTGGCTCCCGATGGCCATATCTTCTTGGAAAGCCTTCTCTCCAGTTACA
AATATGCCCAAGACTTCTTGGTGGCTATTGCAGAGCCAGTGTGCCGACCAACCCATGTGCATGAGTACAA
ACTAAGTGCCTACTCCTTGTATGCAGCTGTGAGCGTTGGGCTGCAAACAGTGACATCACCGAGTACCTC
AGGAAGCTCAGCAAGACTGGAGTCCCTGATGGAATTATGCAGTTTATTAAGTTGTGTACTGTGAGCTATG
GAAAAGTCAAGCTGGTCTTGAAGCACACAGATACTTCGTTGAAAGTTGCCACCCCTGATGTAATCCAGCA
TCTTCTCCAGGACCCCGTATCCGAGAATGCCGCTTAAGAACTCTGAAGGGGAGGCCACTGAGCTCATC
ACAGAGACTTTCACAAGCAAATCTGCCATTTCTAAGACTGCTGAAAGCAGTGGTGGGCCCTCCACTTCCC
GAGTGACAGATCCACAGGTAATCTGACATCCCATGGACCTGTTTGACTTCTATGAGCAAATGGACAA
GGATGAAGAAGAAGAAGAAGAGACACAGACAGTGTCTTTGAAGTCAAGCAGGAAATGATTGAGGAACTC
CAGAAACGTTGCATCCACTGGAGTACCCTCTGTTGGCAGAATATGACTTCCGGAATGATTCTGTCAACC
CTGATATCAACATTGACCTAAAGCCACAGCTGTCTCAGACCCTATCAGGAGAAGAGCTTGCGAAAGAT
GTTTGGAAACGGGCGTGCACGTTCCGGGGTCAATTGTTCTCCCTGCGGTGCTGAAAGTCCCTGGTTGGT
GTGACTGCTGCATGCACTGTGAGAAAACGCTGTCTGGTGTGGGCAACTCAGCTGTTTCTGTGGAGCAGT
GGAAAGCCAGTTC AAGATGTGGTCCACCATTGACGACAGCCAGATCTGCCGTTACCTCCGATGCCAA
GGACAAGCCCATCGGCTGCTCCGTTGCCATTAGCACCTACTCCATGCTGGGCCACACCACAAAAGGTCC
TGGGAGGCCGAGCGAGTCATGGAGTGGCTCAAGACCCAGGAGTGGGGCCTCATGATCCTGGATGAAGTGC
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TGGCACCCTCGTCCGCAAGATGACAAAATTGTGGATTTAAATTTTCTGATTGGGCCTAAGCTCTACGAA
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CCCCAACAAATTTAGAGCTTGCCAGTTTCTGATCAAGTTTCAAGAAAGGAGGAATGACAAGATTATTGTC
TTTGCTGACAATGTGTTTGCCTAAAGGAATATGCCATTCGACTGAACAAACCTATATCTACGGACCTA
CGTCTCAGGGGAAAGGATGCAAATTTCCAGAATTTCAAGCACACCCCAAAATTAACACCATCTTCAT
ATCCAAGGTAGGTGACACTTCGTTTGATCTGCCGGAAGCAAATGTCTCATTGAGTCTCATCCCATGGT
GGCTCCAGGCGTCAGGAAGCCAAAGGCTAGGGCGGGTGTCTCGAGCTAAAAAAGGGATGTTGCGAAG
AGTACAATGCCTTTTTCTACTACTGGTATCCCAGGACACACAGGAAATGGCTTACTCAACCAAGCGGCA
GAGATTCTTGGTAGATCAAGGTTATAGCTTCAAGGTGATCACGAACTCGCTGGCATGGAGGAGGAAGAC
TTGGCGTTTTTCGACAAAAGAAGCAACAGCAGCTTTACAGAAAGTCTTGGCAGCCACTGACCTGGATG
CCGAGGAGGAGGTGGTGGCTGGGAAATTTGGCTCCAGATCCAGCCAGGCATCTCGGCGCTTTGGCACCAT
GAGTTCATGTCTGGGGCCGACGACACTGTGTACATGGAGTACCCTCATCGGGAGCAAGGCGCCACG
AAACATGTACACCCGCTTCAAGCGCTTAGGAAATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000122 unedited
 ATATCCAGATTTGTATACGACTCATATGGGCGGCCGCAATTCGCACGAGGGCGGGCCT
 GTGGGAGCGGGTTCATCTTCTCTGCTGTAGCTGCCATGGGCAAAAGAGACCGAGC
 GGACCTGCGACAAGTAAGAAATCCAGGAAGCGCACTATGAGGATGAAGAGGATGATGAA
 GAGGACGCCCCGGGAACGACCTCAGGAAGCGGTTCCCTCGGCGGGGGAAGCAGGTG
 GATGAGTCAGGCACCAAAGTGGATGAATATGGAGCCAAGGACTACAGGCTGCAAAATGCCG
 CTGAAGGACGACCACACCTCCAGGCCCTCTGGGTGGCTCCCGATGGCCATATCTTCTTG
 GAAGCCTTCTCTCAGTTTACAAATATGCCCAAGACTTCTTGGTGGCTATTGCAGAGCCA
 GTGTGCCGACCAACCCATGTGCATGAGTACAACTAACTGCCTACTCCTTGTATGCAGCT
 GTCAGCGTTGGGCTGCAAACAGTGACATCACCGAGTACCTCAGGAAGCTCAGCAAGACT
 GGAGTCCCTGATGGAATTATGCAGTTTATTAAGTTGTGTACTGTCAGCTATGGAAAAGTC
 AAGCTGGTCTTGAAGCACACAGGTAAGAGATTCCATGACAGGCTGTCCCAGGCACTG
 TCACTTTCTGCGCACCAGCAGGAATAAAGGGATATGGGCAGGACCTGATGTTTATGCTGT
 CTTTTCTGTGAGCCAGATAAGAGCAGAGAAACAGAGATGTGCCCGACTGGAACATC
 CCTGCCACTGTATTCTCTAGCATGGAGCTGGCTCAGCCCTGCCTACTTGCCTCAGGT
 CCCACCCTCTATGTTAAATCATGCCGAGCTCATGCTCAGANTTGGCGAAGGGTGTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000122 unedited
 NTTTTACTATGGACGCGGCCGATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTCGGGGTCAAGGGGCCATTCTGTTTATTCAAACGGGAA
 CATAAATACCCCTTAAATATTAACATTTTTATATACAGAAATGACCCCACTCCCCAAA
 AGTTTGAAAAAATATTGGCTCCTCCTTTATAAAACCTAAATGACCTATGAAGGCAC
 AGCCAAGCCCTTGATGCATTTTCTAAGACAATTTGGCCAACGCTGGAGGGAAGGTCAA
 AGAGGGGGAAGGAAAATGTTATGCTGAAAATCCCTTTCCAACAAGGGGGCCAAGCGCCGG
 TCTTGAACAAAGTACCCTGCCTAAGCATCATTTCTAAAGCGCTTGAAGCGGGTGTAC
 ATGTTTGTGGGCGCCTTGTCCGCGATGAGGGTACTCCATGTACACAGGGTCTGTCGGC
 CCCAAACATAAACTCATGGGGCAAAGCGCCGAAATGCCTGGCTGGATCTGGAGCCAAA
 TTCCCCAGCCACCCTCCTCTGGGAATCCAGGTCAGGGGCTGCCAGGACTTTCTGTAA
 AAGCTGCTGTTGCTCTTCTTTTGTGAAAACGCCAAGTTTTCTCCTCCATGCCAGCGAG
 TTTCTGATCACCTTGAAGCTATAACCTTGATCTACCAAGAATCTCTGCCGCTTGGTTGA
 GTAAGCCATTTCTGTGTCTTGGGATACCGAGGAGTAGAAAAAGGCATTGTACTCTTC
 TGCAACCATCCCTTTTTAGCTCGAAGCACCCGCCCTAACCTTTGGGCTTCTGACGCCT
 GGAGCCCCATGGGATGAGATCTGAATGAGACATTTGCTCCGCAATCAAACGAGTGCACC
 TACCTTGATTGAAAATGGNGTATTTTGGGTTG

Restriction Sites:

NotI-NotI

ACCN:

NM_000122

Insert Size:

3260 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_000122.1 , NP_000113.1
RefSeq Size:	2751 bp
RefSeq ORF:	2349 bp
Locus ID:	2071
UniProt ID:	P19447
Cytogenetics:	2q14.3
Domains:	DEAD, helicase_C
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Nucleotide excision repair
Gene Summary:	<p>This gene encodes an ATP-dependent DNA helicase that functions in nucleotide excision repair. The encoded protein is a subunit of basal transcription factor 2 (TFIIH) and, therefore, also functions in class II transcription. Mutations in this gene are associated with Xeroderma pigmentosum B, Cockayne's syndrome, and trichothiodystrophy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]</p> <p>Transcript Variant: This variant (1) represents the shortest transcript and encodes the longer isoform (a).</p>