

## Product datasheet for **SC337291**

### XPB (ERCC3) (NM\_001303416) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	XPB (ERCC3) (NM_001303416) Human Untagged Clone
Tag:	Tag Free
Symbol:	ERCC3
Synonyms:	BTF2; GTF2H; RAD25; Ssl2; TFIIH; TTD2; XPB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001303416, the custom clone sequence may differ by one or more nucleotides

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ATGCCGCTGAAGGACGACCACACCTCCAGGCCCTCTGGGTGGCTCCCGATGGCCATATCTTCTTGGAA
CCTTCTCTCCAGTTTACAAATATGCCAAGACTTCTTGGTGGCTATTGCAGAGCCAGTGTGCCGACCAAC
CCATGTGCATGAGTACAACTAACTGCCTACTCCTTGTATGCAGCTGTCAGCGTTGGGCTGCAAACCAAG
GACATCACCGAGTACCTCAGGAAGCTCAGCAAGACTGGAGTCCCTGATGGAATTATGCAGTTTATTAAGT
TGTGTAAGTGTGAGTATGAAAAAGTCAAGCTGGTCTTGAAGCACAAACAGATACTTCGTTGAAAGTTGCCA
CCCTGATGTAATCCAGCATCTTCTCCAGGACCCCGTATCCGAGAATGCCGCTTAAGAACTCTGAAGGG
GAGGCCACTGAGCTCATCACAGAGACTTTCACAAGCAAATCTGCCATTTCTAAGACTGCTGAAAGCAGTG
GTGGGCCCTCCACTTCCCGAGTGACAGATCCACAGGGTAAATCTGACATCCCATGGACCTGTTTGACTT
CTATGAGCAAATGGACAAGGATGAAGAAGAAGAAGAGACACAGACAGTGTCTTTGAGTCAAGCAG
GAAATGATTGAGGAACTCCAGAAACGTTGCATCCACTGGAGTACCCTCTGTTGGCAGAATATGACTTCC
GGATGATTCTGTCAACCCTGATATCAACATTGACCTAAAGCCCACAGCTGTCTCAGACCTATCAGGA
GAAGAGCTTGCGAAAGATGTTTGGAAACGGGCGTGCACGTTCCGGGGGTCAATTGTTCTTCCCTGCGGTGCT
GGAAAGTCCCTGGTTGGTGTGACTGCTGCATGCACTGTGAGAAAACGCTGTCTGGTGGTGGGCAACTCAG
CTGTTTCTGTGGAGCAGTGGAAAGCCAGTTCAAGATGTGGTCCACCATTGACGACAGCCAGATCTGCCG
GTTACCTCCGATGCCAAGGACAAGCCCATCGGCTGCTCCGTTGCCATTAGCACCTACTCCATGTGGGC
CACACCACAAAAGGTCCTGGGAGGCCGAGCGAGTCAAGGAGTGGCTCAAGACCCAGGAGTGGGGCCTCA
TGATCCTGGATGAAGTGCACACCATACCAGCCAAGATGTTCCGAAGGGTGGTCCACCATCGTGCAGGCCCA
CTGTAAGCTGGGTTTACTGCGACCCTCGTCCGGAAGATGACAAAATTTGGATTTAAATTTTCTGATT
GGGCCAAGCTCTACGAAGCCAAGTGGATGGAGTGCAGAATAATGGCTACATCGCCAAAGTCCAGTGTG
CTGAGGCTGGTGGCCTATGCTCTCCTGAATTTTACCGGGAATATGTGGCAATCAAAACCAAGAAACGAAT
CTTGCTGTACACCATGAACCCCAACAAATTTAGAGCTTGCAGTTTCTGATCAAGTTTCATGAAAGGAGG
AATGACAAGATTATTGTCTTTGCTGACAATGTGTTTGGCCATAAGGAATATGCCATTGACTGAACAAAAC
CCTATATCTACGGACCTACGCTCAGGGGGAAAGGATGCAAATTTCCAGAATTTCAAGCACAACCCCAA
AATTAACACCATCTTATATCCAAGGTAGGTGACACTTCGTTTGTATCTGCCGGAAGCAAATGCTCCTATT
CAGATCTCATCCCATGGTGGCTCCAGGCGTCAGGAAGCCAAAGGCTAGGGCGGGTGTCTCGAGCTAAAA
AAGGGATGTTGAGAAGAGTACAATGCCTTTTTCTACTACTGGTATCCAGGACACACAGGAAATGGC
TACTCAACCAAGCGGCAGAGATTCTTGGTAGATCAAGGTTATAGCTTCAAGGTGATCACGAAACTCGCT
GGCATGGAGGAGGAAGACTTGGCGTTTTGACAAAAGAAGAGCAACAGCAGCTCTTACAGAAAGTCTGG
CAGCCACTGACCTGGATGCCGAGGAGGAGTGGTGGCTGGGGAATTTGGCTCCAGATCCAGCCAGGCATC
TCGGCGCTTTGGCACCATGAGTTCTATGCTGGGGCCGACGACTGTGTACATGGAGTACCACCTCATCG
CGGAGCAAGGCGCCAGCAAACATGTACACCCGCTCTTCAAGCGCTTTAGGAAA TGA
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001303416

**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:**

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\\_001303416.1](#), [NP\\_001290345.1](#)

**RefSeq Size:** 2865 bp

**RefSeq ORF:** 2157 bp

**Locus ID:** 2071

**Cytogenetics:** 2q14.3

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Nucleotide excision repair

**Gene Summary:** 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]

Transcript Variant: This variant (2) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (b) has a shorter N-terminus, compared to isoform a. Variants 2 and 3 encodes the same isoform.