

## Product datasheet for **RC239398**

### XPB (ERCC3) (NM\_001303418) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	XPB (ERCC3) (NM_001303418) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ERCC3
Synonyms:	BTF2; GTF2H; RAD25; Ssl2; TFIIH; TTD2; XPB
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RC239398 representing NM\_001303418  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGCCGCTGAAGGACGACCACACCTCCAGGCCCTCTGGGTGGCTCCCGATGGCCATATCTTCTTGAAG  
CCTTCTCTCCAGTTTACAAATATGCCCAAGACTTCTTGGTGGCTATTGCAGAGCCAGTGTGCCGACCAAC  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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Protein Sequence: >RC239398 representing NM\_001303418  
 Red=Cloning site Green=Tags(s)

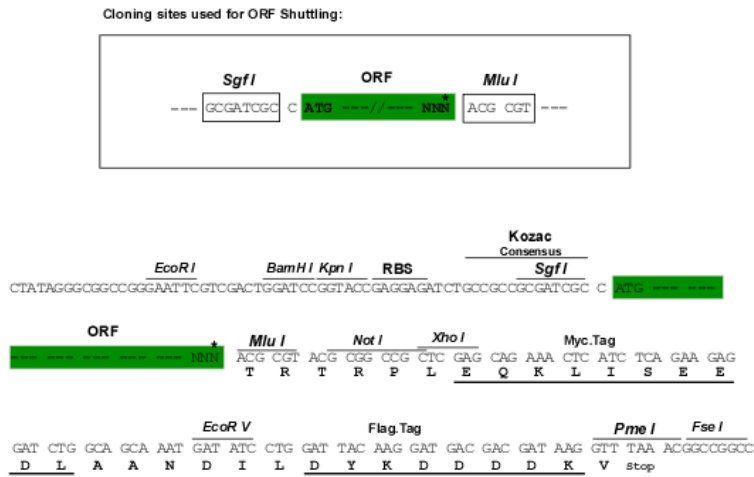
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 EMIEELQKRCIHLEYPLLA EYDFRND SVNPDINIDLKPTAVLRPYQEKSLRKMFGNGRARSGVIVLPCGA  
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 QISSHGGSR RQEAQRLGRVLR AKKGMVAEEYNAFFYSLSVSDTQEMAYSTKRQRFVLDQGYSFK VITKLA  
 GMEEEDLAFSTKEEQQLLQKVL AATDLDAEEVVAGEFGSRSSQASRRFGTMSSMSGADTVYMEYHSS  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

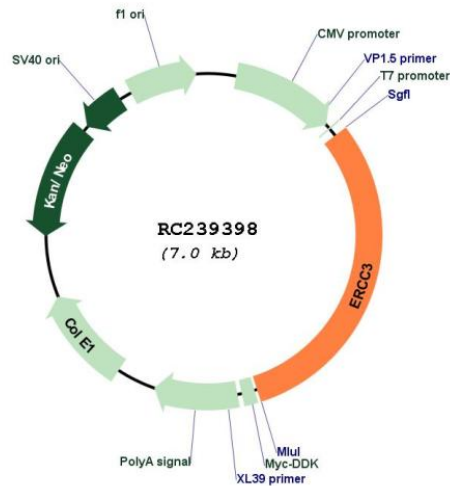
Sgfl-MluI

Cloning Scheme:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_001303418

ORF Size: 2154 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001303418.2](#)

RefSeq Size: 2947 bp

RefSeq ORF: 2157 bp

<b>Locus ID:</b>	2071
<b>Cytogenetics:</b>	2q14.3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Nucleotide excision repair
<b>MW:</b>	82.4 kDa
<b>Gene Summary:</b>	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]