

## Product datasheet for MR203762

### Xpa (BC029241) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Xpa (BC029241) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xpa
Synonyms:	A1573865; Xpac
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203762 representing BC029241 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCGACGGCCGAGGAAAAGCAGACGTACCTGAGCCCGTGGCCGCGGACGAGCCCGCGCAGCTGCCGG  
CCGCCGTACGCGCGAGCGTGGAGCGGAAGCGACAGCGGGCACTGATGCTGCGCCAGGCTCGGCTGGCTGC  
GCGGCCCTACCCCGCGGGCGGCCACCGAGGCGTGGCCAGTGTAAAAGCAGCTCCAAAATGATTGAC  
ACCAAAGGTGGCTTCATTTTGAAGAGGAAGAAGAGAAACACGAGATTGAAACATTGTTTCATGAACCG  
GGCCCGTCATGGAGTTTGATTACACCATCTGTGAAGAATGCGGGAAAGAGTTCATGGACTCGTACCTTAT  
GAACCACTTTGATCTGCCAACGTGTGACAGCTGCAGAGATGCTGATGATAAACACAAGCTTATAACCAAG  
ACAGAAGCGAAGCAAGAGTACCTTCTGAAGGACTGTGATCTAGAGAAGAGAGAGCCAGCGCTCAGTTCC  
TTGTGAAGAAGAACCACGCCATTACAGTGGGGCGATATGAAGCTCTACCTAAAGCTACAGGTGGTAAA  
GCGGGCTCTTGAAGTGTGGGTAGCCAGGAAGCTCTGGAAGATGCAAAGGAAGTGAGGCAGGAAAACCGA  
GAAAAATGAAGCAGAAGAAGTTTGATAAAAAAGTAAAAGTAGGACTTGATGATGCAGTGAAGATTCTCC  
TCGATGACAACTCTCCACCGAATGGCTCCCTGGCATAACAGGGCCCTGGAAAAAGATCAAGTGTACT  
CACACGCACAACCACAAAACAGATTTCTTTTATTCAATAAACACTTGGCAGTGTGGTGTCTAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203762 representing BC029241  
Red=Cloning site Green=Tags(s)

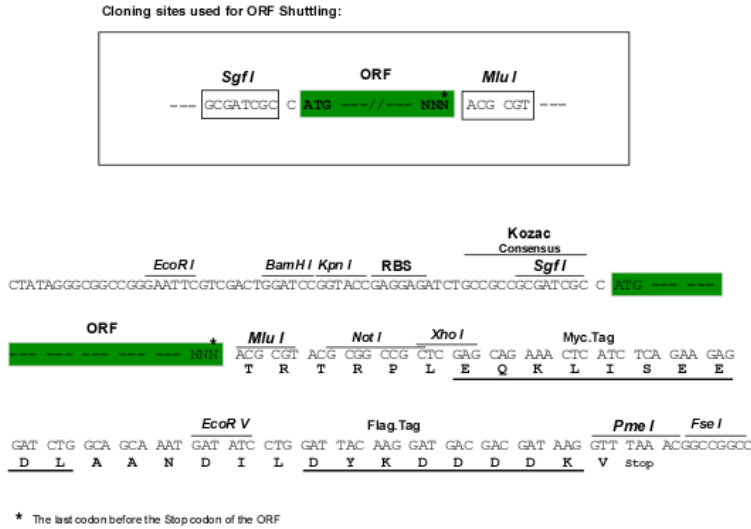
MATAEEKQTSPEPVAADPEAQLPAAVRASVERKRQRLMLRQARLAARPYAAAAATGGVASVKAAPK MID  
 TKGGF ILEEEEEKHEIGNIVHEPGVMEFDY TICEECGKEFMDSYLMNHFDLPTCDSCRDADDKHLITK  
 TEAKQEYLLKDCDLEKREPALRFLVKKNPRHSQWGMKLYLKLQVVKRALEVWGSQEALDAKEVRQENR  
 EKMKQKFKDKVKVGLDDAVKILLDDKPLHRMAPWHNRAL EKRSSVL TRTTTKQISFIYSINTCDCCAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9035\\_g01.zip](https://cdn.origene.com/chromatograms/mm9035_g01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC029241

**ORF Size:** 837 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:** [BC029241.1](#)

**RefSeq Size:** 1234 bp

**RefSeq ORF:** 839 bp

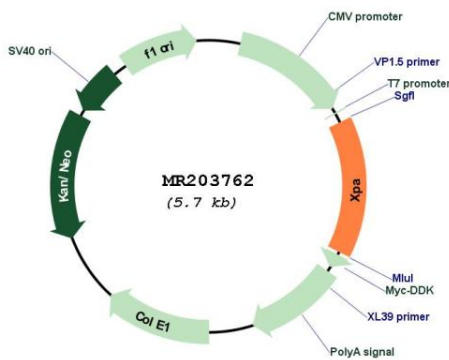
**Locus ID:** 22590

**Cytogenetics:** 4 24.49 cM

**MW:** 45.2 kDa

**Gene Summary:** Involved in DNA excision repair. Initiates repair by binding to damaged sites with various affinities, depending on the photoproduct and the transcriptional state of the region. Required for UV-induced CHEK1 phosphorylation and the recruitment of CEP164 to cyclobutane pyrimidine dimers (CPD), sites of DNA damage after UV irradiation (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR203762