

Product datasheet for **MG222839**

Xpa (NM_011728) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xpa (NM_011728) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Xpa
Synonyms:	A1573865; Xpac
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222839 representing NM_011728 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACGGCCGAGGAAAAGCAGACGTACCTGAGCCCGTGCCCGGACGAGCCCGCGCAGCTGCCGG
CCGCCGTACGCGCGAGCGTGGAGCGGAAGCGACAGCGGGCACTGATGCTGCGCCAGGCTCGGCTGGCTGC
GCGGCCCTACCCCGCGCGGGCCGCCACCGAGGCGTGGCCAGTGTAAAAGCAGCTCCCAAATGATTGAC
ACCAAAGGTGGCTTCATTTTGAAGAGGAAGAAGAGAAAACACGAGATTGAAACATTGTTTCATGAACCG
GGCCCGTCATGGAGTTTGATTACACCATCTGTGAAGAATGCGGGAAAGAGTTCATGGACTCGTACCTTAT
GAACCACTTTGATCTGCCAACGTGTGACAGCTGCAGAGATGCTGATGATAAACACAAGCTTATAACCAAG
ACAGAAGCGAAGCAAGAGTACCTTCTGAAGGACTGTGATCTAGAGAAGAGAGAGCCAGCGCTCAGTTCC
TTGTGAAGAAGAACCACGCCATTACAGTGGGGCGATATGAAGCTCTACCTAAAGCTACAGGTGGTAAA
GCGGGCTCTTGAAGTGTGGGTAGCCAGGAAGCTCTGGAAGATGCAAAGGAAGTGAGGCAGGAAAACCGA
GAAAAATGAAGCAGAAGAAGTTTGATAAAAAAGTAAAAGAAATTCGCGCGAGCAATAAGAAGCAGTGTAT
GGAAAAGAGACAACCACTACCAACATAAATATGGACCAGAGGAAAACCTAGAAGATGACATGTACCG
CAAGACTTGTACCTTGTGTGGCCACGAAGTACATATGAAAAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222839 representing NM_011728
Red=Cloning site Green=Tags(s)

MATAEEKQTSPEPVAADEPAQLPAAVRASVERKRQRALMLRQARLAARPYAAAAATGGVASVKAAPK MID
 TKGGF ILEEEEEKHEIGNIVHEPGVMEFDY TICEECGKEFMDSYLMNHFDLPTCDSCRDADDKHLITK
 TEAKQEYLLKDCDLEKREPALRFLVKKNPRHSQWGMKLYLKLQVVKRALEVWGSQEALEDAKEVRQENR
 EKMKQKFKDKVKELRRAIRSSVWKRETTTHQHKKYGPEENLEDDMYRKTCTLCGHELTYEKM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011728

ORF Size: 816 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_011728.2](#), [NP_035858.2](#)

RefSeq Size: 972 bp

RefSeq ORF: 819 bp

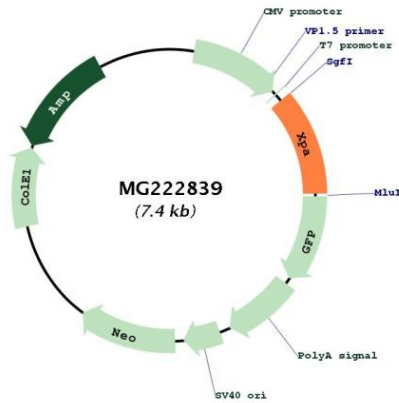
Locus ID: 22590

UniProt ID: [Q64267](#)

Cytogenetics: 4 24.49 cM

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 MG222839