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Product datasheet for MR219044

Xaf1 (NM_001037713) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Xaf1
Synonyms:	Fbox39
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR219044 representing NM_001037713
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGCTGACTTCCAAGTGTGCAGGAACTGCAAAAGAAATGTGGCCTCTCTCCACTTCATGCTCCACG
AGGCCCACTGCCTGCGCTTCATAGTCCTTTGCCCAGAATGTGAAGAGCCCATCCCAGAGTCAAAGATGAA
AGAGCACATGGAAGTTGTGCACCAGCAGACCAAGGAAAGCCAACAGCACCCTGCCAAGTGCAAGTTCTGT
GAGCTGGCCGTGCAGCTTAGCAATCTGGATGTCCATGAGTCCCACTGTGGCAGCCGGACAGAGCATTGTC
CACACTGCAACCAGCCCATCACACTCCAAGTACTGTCTCAGCACAAAGCCATGTGTCTGAGTGCAAAGGG
CAGGCCTGAGGAAGGGAAGAGAATTGTATCATCTCCTGGAAGAAAAACCCGTTGTGATCTTTGCAAACAA
ATGATTCCAGAAAATACGTATGCCTCCCATATGAAACAATGTTCCGCCCCAAACACTGTGACACGTATTC
GGGATGAAAGTATAATAGTCATTCCTTCAACCCTTGCATTTATGGACTCTGGAAATCGAAGATCCACAGT
GAGTAAAGATGTTCGTCCAAAGACAAAAAATAGAAACAGCTCAACAAAGCGAGAGACAAAAAAACAAAAT
GGCACTGTGGCTCTGCCTTTGAAGTCTGGGCTCCAGCAGAGGGCTGATCTTCCCACAGGAGACGAGACGG
CCTATGACACTCTCCAGAACTGTTGTCAGTGCCGAATTTTACTTCCCTTGCCCATTCTAAATGAGCACCA
GGAGAAGTGCCAGAGGTTAGCTCACCAAAAGAAACTCCAGTGGGGCTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>MR219044 representing NM_001037713
Red=Cloning site Green=Tags(s)

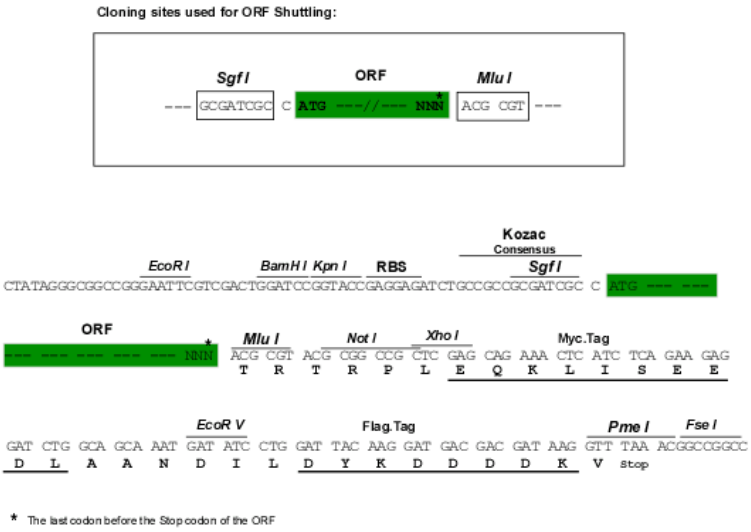
MEADFQVCRNCKRNVASLHFMLHEAHCLRFIVLCPECEEPIPESKMKEHMEVVHQQTKESQQHPAKCKFC
ELAVQLSNLDVHESHCGSRTEHCPHCNQPITLQVLSQHKAMCLSAKGRPEEGKRIVSSPGRKTRCDLCKQ
MIPENTYASHMKQCSAPNTVTRIRDESIIVIPSTLAFMDSGNRRSTVSKDVRPKTKNRNSSTKRETKKQN
GTVALPLKSGLQQRADLPTGDETAYDTLQNCCQCRILLPLPILNEHQEKCQRLAHQKKLQWGW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9071_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001037713

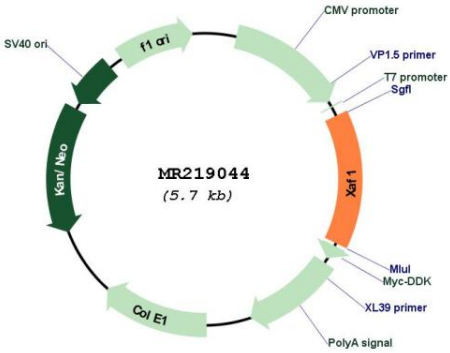
ORF Size: 819 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001037713.4, NP_001032802.2
RefSeq Size:	2598 bp
RefSeq ORF:	822 bp
Locus ID:	327959
UniProt ID:	Q5NBU8
Cytogenetics:	11 B4
MW:	31.1 kDa
Gene Summary:	Seems to function as a negative regulator of members of the IAP (inhibitor of apoptosis protein) family. Inhibits anti-caspase activity of BIRC4. Induces cleavage and inactivation of BIRC4 independent of caspase activation. Mediates TNF-alpha-induced apoptosis and is involved in apoptosis in trophoblast cells. May inhibit BIRC4 indirectly by activating the mitochondrial apoptosis pathway. After translocation to mitochondria, promotes translocation of BAX to mitochondria and cytochrome c release from mitochondria. Seems to promote the redistribution of BIRC4 from the cytoplasm to the nucleus, probably independent of BIRC4 inactivation which seems to occur in the cytoplasm. The BIRC4-XAF1 complex mediates down-regulation of BIRC5/survivin; the process requires the E3 ligase activity of BIRC4. Seems to be involved in cellular sensitivity to the proapoptotic actions of TRAIL. May be a tumor suppressor by mediating apoptosis resistance of cancer cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219044