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Product datasheet for RC202071

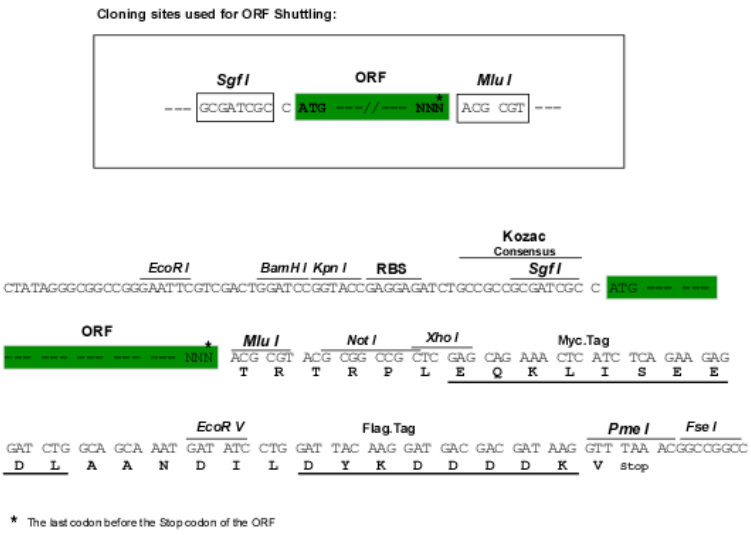
Noxa (PMAIP1) (NM_021127) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Noxa (PMAIP1) (NM_021127) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Noxa
Synonyms:	APR; NOXA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202071 representing NM_021127 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCTGGGAAGAAGGCGCGCAAGAACGCTCAACCGAGCCCCGCGCGGGCTCCAGCAGAGCTGGAAGTCG AGTGTGCTACTCAACTCAGGAGATTTGGAGACAAACTGAACTTCCGGCAGAAACTTCTGAATCTGATATC CAAACTCTTCTGCTCAGGAACC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC202071 representing NM_021127 Red=Cloning site Green=Tags(s) MPGKKARKNAQPSPARAPAELEVECATQLRRFGDKLNFRQKLLNLISKLFCSGT TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6125_e01.zip
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_021127

ORF Size: 162 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).

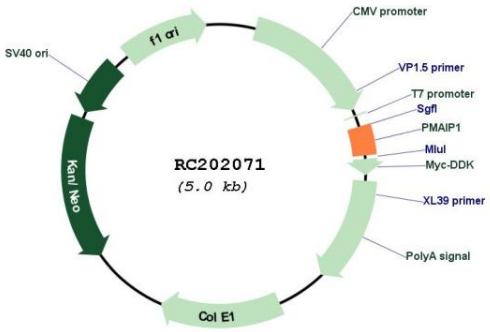
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

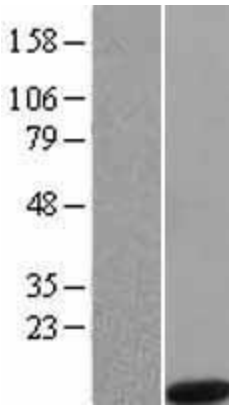
RefSeq: NM_021127.3

RefSeq Size:	1885 bp
RefSeq ORF:	165 bp
Locus ID:	5366
UniProt ID:	Q13794
Cytogenetics:	18q21.32
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	p53 signaling pathway
MW:	5.8 kDa
Gene Summary:	This gene belongs to a pro-apoptotic subfamily within the BCL-2 protein family, referred to as the BCL-2 homology domain 3 (BH3)-only subfamily, which determine whether a cell commits to apoptosis. In response to death-inducing stimuli, BH3-only members inhibit the anti-apoptotic BCL-2 family members, which under steady-state conditions keep the multi-BH domain proteins BAX and BAK, in an inactive state. [provided by RefSeq, Aug 2020]

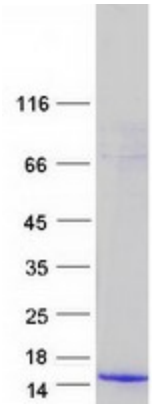
Product images:



Circular map for RC202071



Western blot validation of overexpression lysate (Cat# [LY402842]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202071 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PMAIP1 protein (Cat# [TP302071]). The protein was produced from HEK293T cells transfected with PMAIP1 cDNA clone (Cat# RC202071) using MegaTran 2.0 (Cat# [TT210002]).