

Product datasheet for **RC239143**

FAM120A (NM_001286724) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM120A (NM_001286724) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM120A
Synonyms:	C9orf10; HBVPTPAP; OSSA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239143 representing NM_001286724
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTGCAGGGCTTCCAGGACTACATCGAGAAGCACTGCCGAGCGCCGTGGTCCGGTGGAGCTGC
 AGAAGCTGGCCCGGGCAGCCTGGTGGCGGGCGGGCAGCGCCCGCAGACCCCGCTGCGCCTGCT
 GGTGGACGCCGACAACCTGCACCGCCTCTACGGCGGCTTCTACACCGACTGGGTGAGCGGGCCAG
 TGGAAACCACATGCTTGGCTACCTGGCGGCTGGCCAAGGCTGCTTCGGCGGCAACATCGAGCTTTCG
 TCTTCTCAACGGCGGCTCGAGAAGGCCCGGCTGCACGAGTGGTCAAGCGGCAGGGCAACGAGCGCCA
 GACGGCACAGCAGATCGTCAGCCATGTCCAGAACAAGGGCACCCCGCCGCAAGGTCTGGTTCTTGCCG
 CCCGCTGCATGGCCACTGCATCCGCCTGGCGCTCATCCGCTTCCACGTCAAGTTGCACAGAGCATTG
 AGGATCACCATCAGGAAGTGATTGGTTTCTGCAGAGAGAATGGTTCCATGGCTTGGTTGCGTATGACTC
 TGATTATGCACTGTGCAACATCCCTACTATTTAGTGGCCATGCCCTAAAAGTGGAGCGGAAACGGGAAA
 AGTCTCACCACAAGCCAATATCTGATGCATGAAGTTGCCAAGCAACTGGACTGAATCCAATCGTTTTTC
 CTATTTTTGCTGCTCTCTTAGGAAATCACATTCTGCCTGATGAAGATCTGGCTTCTTTCTACTGGAGTTT
 ACTTGGTCCAGAACATCCACTAGCCTCACTAAAGTCCGGGCCACCAGCTGGTCTTGCCACCTTGCAGC
 GTAGTGATCAAAGCCGTTGCTGACTATGTACGCAACATTCAGGACACCTCTGACTTGGATGCCATAGCTA
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 GGAATGCCTGGGATGGTCCCGCATGTTCTCTCAGATGCTCAACATTCGCGAGACCTCTCTGCAAG
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 CAGCGGAGGGGACAAACCATATCAGCGGAACAAGATTGGCTGGGAGAAGACGGGAAGCCACTCAGAG
 CCTCAGGCACGAGGAGACCCAGGAGACAAACAAGGCAGAAGGCTCGTCCACTGCCTCTCAGGAAGCC
 AACTAGCCGAAGGAAGGAAGCCAGATGGGCACTGTCCAGCCAATCCCGTGCCTCTGTGATGCCAC
 CAGGAACCACATGGACATCACACACCTCCCTGCCCGCTCGACCTGAGGTGCTGAGAGTGGCCGAG
 CACAGGCACAAGAAGGGCTGATGTACCCCTACATCTTCCATGCTCCTGACGAAGTATTATCAAAGGGC
 CCTGGAGTGGCTTCTGTTATTTGATGAGTGGCCATTCTATGGGTGTTTTGCTTTTTGCTTTTTTGA
 ACCATTTTTCTGTCTTACTAATCTACTTGAACAAAGTCACTTTCCCTTTCTAAACATTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC239143 representing NM_001286724
 Red=Cloning site Green=Tags(s)

MGVQGFQDYIEKHCPASVVPVELQKLARGSLVGGGRQRPPTPLRLLVDADNCLHRLYGGFYTDWVSGGQ
 WNHMLGYLAALAKACFGGNIELFVFNFALEKARLHEWVKRQGNERTAQQIVSHVQNKGTPPPKVWFLP
 PVCMAHCIRLALIRFHVKVAQSIEDHHQEVIQFCRENGFHGLVAYDSYALCNIPYYFSAHALKLSRNGK
 SLTTSQYLMHEVAKQLDLNPNRFPIFAALLGNHILPDEDLASFHWSLLGPEHPLASLKVRAHQVLPPCD
 VVIKAVADYVRNIQDSDLDAIAKDVVFQHSQSRDDKVIKRAIGYYSATSKPMSFHPPHYLAARPGPF
 GMPGMVPPHPPQMLNIPQTSLQAKPVAPQVSPGGAPGQGPYPYSLSEPAPLTLDTSKNL TEQNSYSN
 IPHEGKHTPLYERSSPINPAQSGSPNHVDSAYFPGSSTSSSDNDESGGATNHSNKGWKEKTGSHSE
 PQARGDPGDQTKAEGSSTASSGSQLAEGKGSQMGTVPQIPCLLSMPTRNHMDITPPLPPVAPEVLRVAE
 HRHKKGLMYPYIFHVLTKVLSKGPWSGFCYLMGSHSYGCFVLLSFFEPFFCLTNLLETFTFPLNIE

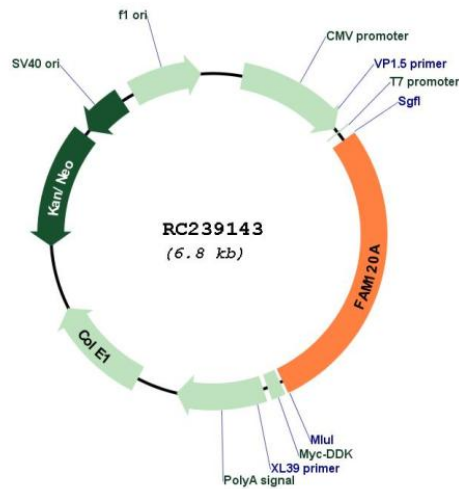
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286724

ORF Size: 1884 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:	<ol style="list-style-type: none">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_001286724.2
RefSeq Size:	3788 bp
RefSeq ORF:	1887 bp
Locus ID:	23196
UniProt ID:	Q9NZB2
Cytogenetics:	9q22.31
MW:	69.4 kDa
Gene Summary:	May participate in mRNA transport in the cytoplasm (By similarity). Critical component of the oxidative stress-induced survival signaling. Activates src family kinases and acts as a scaffolding protein enabling src family kinases to phosphorylate and activate PI3-kinase. Binds RNA and promotes the secretion of IGF-II. May play a pivotal role in the progression of scirrhou-type gastric cancer by supporting cancer cell survival in environments with various oxidative stresses.[UniProtKB/Swiss-Prot Function]