

Product datasheet for **RC239207**

FAM120A (NM_001286723) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM120A (NM_001286723) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM120A
Synonyms:	C9orf10; HBVPTPAP; OSSA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC239207 representing NM_001286723
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGCGTGCAGGGCTTCCAGGACTACATCGAGAAGCACTGCCGAGCGCCGTGGTGCCGGTGGAGCTGC
AGAAGCTGGCCCGGGCAGCCTGGTGGCGGGCGGGCAGCGGCCCGCAGACCCCGCTGCGCCTGCT
GGTGGACGCCGACAACCTGCACCGCCTCTACGGCGGCTTCTACACCGACTGGGTGAGCGGGCCAG
TGGAAACCACATGCTTGGCTACCTGGCGGCGCTGGCCAAGGCTGCTTCGGCGGCAACATCGAGCTTTCG
TCTTCTCAACGGCGCGCTCGAGAAGGCCCGGCTGCACGAGTGGTCAAGCGGCAGGGCAACGAGCGCCA
GACGGCACAGCAGATCGTCAGCCATGTCCAGAACAAGGGCACCCCGCCGCAAGGTCTGGTTCTTGCCG
CCCGTCTGCATGGCCACTGCATCCGCCTGGCGCTCATCCGCTTCCACGTCAAGTTGCACAGAGCATTG
AGGATCACCATCAGGAAGTGATTGGTTTCTGCAGAGAGAATGGTTCCATGGCTTGGTTGCGTATGACTC
TGATTATGCACTGTGCAACATCCCTACTATTTTCAGTGCCCATGCCCTAAAAGTGAAGCGGAAACGGGAAA
AGTCTCACCAAGCCAATATCTGATGCATGAAGTTGCCAAGCAACTGGACCTGAATCCAATCGTTTTTC
CTATTTTTGCTGCTCTCTTAGGAAATCACATTCTGCCTGATGAAGATCTGGCTTCTTTCTACTGGAGTTT
ACTTGGTCCAGAACATCCACTAGCCTACTAAAGTCCGGGCCACCAGCTGGTCTTGCCACCTTGGCAG
GTAGTGATCAAAGCCGTTGCTGACTATGTACGCAACATTCAGGACACCTCTGACTTGGATGCCATAGCTA
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TTATTCAGCGACTAGTAAGCCTATGTCAATTCATCCACCACATTAAGTAGCAGCCAGACCCGGTCCGTTT
GGAATGCCTGGGATGGTCCCGCCATGTTCTCCTCAGATGCTCAACATTCGCGAGACCTCTGCAAG
CAAAGCCCGTGGCCACAGGTGCCAGCCAGGGGGCGCCCGGGCCAGGGTCCATACCCGTACAGCCT
CTCTGAGCCAGCACCTCTCACTTTGGACACGAGCGGGAAGAATCTGACGGAGCAGAACAGCTACAGCAAC
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CCTCAGGCACGAGGAGACCCAGGAGACCAAAACAAGGCAGAAGGCTCGTCCACTGCCTTTCAGGAAGCC
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CAGGAACCACATGGACATCACACACCTCCCTGCCCGCTCGCACCTGAGGTGCTGAGAGTGGCCGAG
CACAGGCACAAGAAGGGGCTGATGTACCCCTACATCTTCCATGTCCTGACGAAGGGTGAATCAAATTTG
CTGTTTCTATTGAAGATGAAGCCAACAAGGACCTGCCTCCGGCCGCTCTGCTCTATAGGCCAGTTTGTCA
GTATGTTTACGGAGTCTGTTTGTAGTTTGGCAGAAAGCAGAAAGAAAAGTGAAGAGACTTGGTTTTAGAAAG
AACAGACTTCCACCAGAATGTATGTACTGTAACAATCCATTGTTTGTCTTCTCGGTACCTCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239207 representing NM_001286723
 Red=Cloning site Green=Tags(s)

MGVQGFQDYIEKHCPASVVPVELQKLARGSLVGGGRQRPPTPLRLLVDADNCLHRLYGGFYTDWVSGGQ
 WNHMLGYLAALAKACFGGNIELFVFFNGALEKARLHEWVKRQGNERTAQQIVSHVQNKGTPPPQVWFLP
 PVCMAHCIRLALIRFHVKVAQSIEDHHQEVIQFCRENGFHGLVAYDSYALCNIPYYFSAHALKLSRNGK
 SLTTSQYLMHEVAKQLDLNPNRFPIFAALLGNHILPDEDLASFHWSLLGPEHPLASLKVRAHQLVLPCCD
 VVIKAVADYVRNIQDTSDLDAIAKDVFQHSQSRDDKVIKRAIGYYSATSKPMSFHPPHYLAARPGPF
 GMPGMVPHVPPQMLNIPQTSLQAKPVAPQVPSGGAPGQGPYPYSLSEPAPLTLDTSGKNLTEQNSYSN
 IPHEGKHTPLYERSSPINPAQSGSPNHVDSAYFPGSSTSSSSDNDGSGGATNHISGNKIGWEKTGSHSE
 PQARGDPGDQTKAEGSSTASSGSQLAEGKGSQMGTVQPIPCLLSMPTRNHMDITTPPLPPVAPELVRVAE
 HRHKKGLMYPYIFHVLTKGEIKIAVSIIEDEANKDLPPAALLYRPVRQYVYGVLFSLAESRKKTERLAFRK
 NRLPPECMYCNNPLFVFLGTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

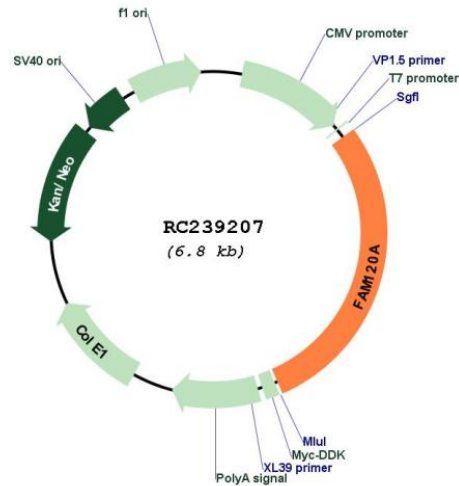
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286723

ORF Size: 1953 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_001286723.1](#), [NP_001273652.1](#)

RefSeq Size: 2418 bp

RefSeq ORF: 1956 bp

Locus ID: 23196

UniProt ID: [Q9NZB2](#)

Cytogenetics: 9q22.31

MW: 72 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]