

Product datasheet for **RC205191**

FAM48A (SUPT20H) (NM_001014286) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM48A (SUPT20H) (NM_001014286) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM48A
Synonyms:	C13; C13orf19; FAM48A; FP757; P38IP; SPT20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC205191 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**C

 ATGCAACAAGCTTTAGAACTAGCTTTGGATCGTGCAGAGTATGTCATTGAAAGTGCCCGACAGAGACCTC
CTAAAAGGAAATACCTATCAAGTGAAGAAAATCTGTATTTCAAAAACCTTATGACTTGTATATTGAAGA
ATGTGAAAAAGAACTGAAGTTAAGAAATTAAGAAGAAATGTGAACTTGTAGAGAAGCTTGTTATGCAA
GAGACTTTGTCATGTTTAGTGGTCAATCTATACCCAGGAAATGAGGGATATTCTCTGATGCTCAGGGGAA
AAAACGGATCAGATTCGAGACCATTGACTGCCCTATGAAGAAGGAGAGTTGCTTGAATATTTGGATGC
AGAAGAATTACCTCCTATTTGGTTGATCTCTAGAAAAATCTCAGGTTAATATTTTTCATTGCGGATGT
GTCATAGCAGAAATACGTGACTACAGGCAGTCCAGTAACATGAAATCTCCTGGTTACCAAAGTCGGCACA
TTCTCTTACGTCCAACAATGCAGACTTTAATTTGTGATGTACATTCAATAACAAGTGATAACCAAAATG
GACCCAGGAAGACAAACTTTTGCTTGAGAGCCAGCTCATCCTAGTACAGCTGAACCACTCTGTCTTGAT
CCTTCTATAGCAGTCACCTGCACTGCAACAGACTGCTCTATAACAAGCAAAAGATGAACACTCGCCCAA
TGAAACGGTGTTCAGAGGTATTCCAGATCCTCTCTGAATCGGCAGCAAGATCTATCTCATTGTCCACC
TCCTCCTCAGCTGAGGTTACTTGATTTCTTACAAAAAGAAAGGAAAGAAAGCAGGTGAGCATTATGAC
CTCAAAATTTCTAAGGCAGGAAATTGTGTAGATATGTGGAACGGAGTCCCTGTAATTTGGCCATACCTT
CTGAAGTAGATGTGGAGAAATATGCTAAAGTGGAAAGTCTATCAAACTGATGACTCACAGCCAACAGT
CTGGCCAGCCCATGATGTAAAGATGATTATGTATTTGAATGTGAAGCTGGTACTCAGTATCAGAAAACA
AAGCTGACCATCTTGCAGTCGCTTGGAGATCCACTTTACTATGGTAAAAATACAGCCATGTAAAGCAGATG
AAGAAAGTGACAGCCAGATGTCTCCATCACACTCGTCCACAGATGATCATTCAAATTTGGTTCAATTATTGG
ATCAAAGACCGATGCTGAGAGGGTAGTCAATCAGTACCAAGAATTAGTCCAGAATGAAGCCAAATGTCCG
GTCAAGATGTACACAGCTCCAGTGGCTCAGCCAGTCTGAGTCAGGTTTCTCCAGGGAAGAAACAGATC
AAACTGAAACCGTGTGAGTTGAGTCTTCGGTATTGGGGAAGGTGTAACATCGACCCCAACATCAA
ACTTCCCTCAAGCTCAGGAAATAGTTTCTCAGGTAAGTATTTTACACCACAACAGACAAGCAGCTTTCTC
AAATCTCAACTCCTCCTCTTCTTAAGCCATCAAGTATTCCTCGAAATCATCTGTGGATCTCAATC
AAGTTAGCATGCTTTCTCAGCTGCCCTATCACCTGCCAGCTCATCACAAGAACCACGGCCACCCAGGT
CATGGCAAACCTGCTGGAATTAACCTCATCAATGTAGTGGGCTCTGTTTGTGGGGCCAGGCTTTGATG
AGTGGTTCAAACCCCATGCTGGGCTGTAACTGCTGCCATAACTCCTGCAGGAATAAACCTGAGCGGCC
TTCTACCTCAGGAGGTCTGCTACCAAAATGCACTGCCAGTGCAATGCAGGCAGCTTCTCAAGCAGGTGT
TCCATTTGGTTTAAAAATACTTCAAGTCTCAGGCCCTTAAATCTACTCCAGCTTCCAGGTGGTTCACTT
ATTTTTAACACTCTGCAGCAGCAGCAACAGCAGCTCTCCAGTTTACACCACAACACCTCAGCAGCCCA
CAACTGTAGTCTCAACAGCCAGGGGAGCAGGTTTCTGAGCAAGGTTCAACCAGTCAAGAACAGGCCTT
ATCTGCTCAGCAAGCTGCTGTTATTAACCTTACTGGAGTAGGAAGTTTATGCAGTCACAGGCAGCTGTG
TTGTCTCAGCTTGGCTCTGTGAGAACAGACCTGAGCAAGCCTTCCTCAGCAGAGATCCAGCTCTCCT
CTGCCTTTCAACAGCAGCAGCAACAGATACAACAGTTGCGATTCTTGCAGCATCAAATGGCTATGGCAGC
AGCAGCAGCACAACAGCTCAGCTACATCATCATCGGCATACAGGCAGCCAGTCAAAAAGTAAAAATGAAG
AGAGGCACGCCAACCACTCCAAAATTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205191 protein sequence
 Red=Cloning site Green=Tags(s)

MQQALELALDRAEYVIESARQPPKRYLSSGRKSVFQKLYDLYIEECEKEPEVKKLRRNVNLEKLVMQ
 ETL SCLVNL YPGNEGYSMLRGKNGSDSETIRLPYEEGELLEYLDAEELPPILVDLLEKSQVNI FHC GC
 VIAEIRDYRQSSNMKSPGYQSRHILLRPTMQTLICDVHSITSDNHKWTQEDKLLLESQILATAEPLCLD
 PSIAVTCTANRLLYNKQKMNTRPMKRCFKRYSRSSLNRQQDL SHC PPPQLRLLDFLQKRKERKAGQHYD
 LKISKAGNCVDMWKRSPCNLAIPSEVDVEKYAKVEKSIKSDDSQPTVWPAHDVKDDYVFECEAGTQYQKT
 KL TILQSLGDPLYYGKI QPCKADEESDSQMSPSHSSTDDHSNWFII GSKTDAERVVNQYQELVQNEAKCP
 VKMSHSSSGSASLSQVSPGKETDQTETVSVQSSVLGKGVKHRPPPIKLPSSSGNSSSGNYFTPQQTSSFL
 KSPTPPPSKPSIPRKSSVDLNQVSMLSPAALSPASSQRTTATQVMANSAGLNF INVVGSVCGA QALM
 SGSNPM LGCNTGAITPAGINLSGLLPSGGLLPNALPSAMQAASQAGVPFGLKNTSSLRPLNLLQLPGGSL
 IFNTLQQQQQLSQFTPQQPQQPTTCSPPQPGEGSEQGSTSQEQALSAQQA VINLTGVGSFMQSQA AV
 LSQ LGSVENRPEQSLPQQRFLSSAFQQQQQIQQLRFLQHQMAMAAAAAQT AQLHHHRHTGSQSKSKMK
 RGTPTTPKF

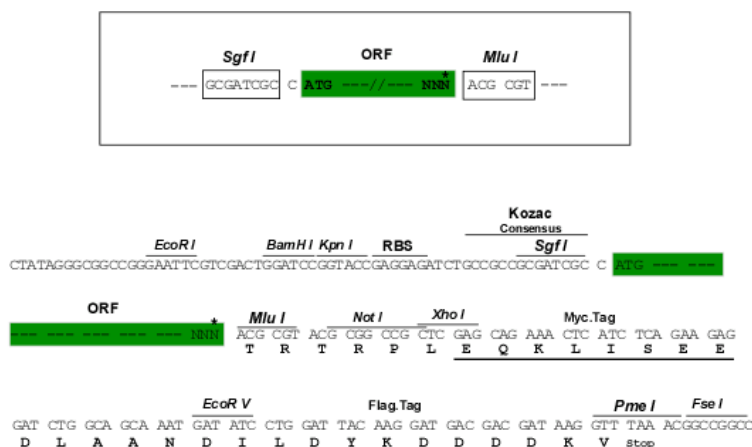
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6695_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001014286

ORF Size: 2337 bp

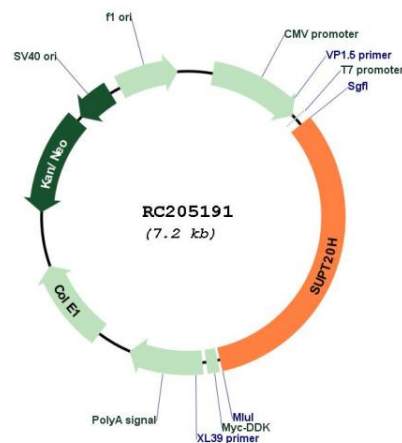
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

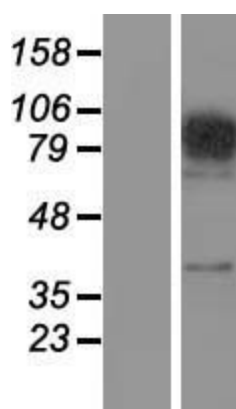
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_001014286.1, NP_001014308.1</u>
RefSeq Size:	3003 bp
RefSeq ORF:	2340 bp
Locus ID:	55578
UniProt ID:	<u>Q8NEM7</u>
Cytogenetics:	13q13.3
Protein Families:	Transcription Factors
MW:	85.8 kDa
Gene Summary:	Required for MAP kinase p38 (MAPK11, MAPK12, MAPK13 and/or MAPK14) activation during gastrulation. Required for down-regulation of E-cadherin during gastrulation by regulating E-cadherin protein level downstream from NCK-interacting kinase (NIK) and independently of the regulation of transcription by FGF signaling and Snail (By similarity). Required for starvation-induced ATG9A trafficking during autophagy.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC205191



Western blot validation of overexpression lysate (Cat# [LY423050]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205191 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).