

Product datasheet for **RG218970**

FAM48A (SUPT20H) (NM_017569) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM48A (SUPT20H) (NM_017569) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAM48A
Synonyms:	C13; C13orf19; FAM48A; FP757; P38IP; SPT20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG218970 representing NM_017569
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAACAAGCTTTAGAAGCTAGCTTTGGATCGTGCAGAGTATGTCATTGAAAGTGCCCGACAGAGACCTC
 CTAAGAGGAAATACCTATCAAGTGAAGAAAATCTGTATTTCAAAAACCTTATGACTTGTATATTGAAGA
 ATGTGAAAAAGAACCTGAAGTTAAGCAGAAATTAAGAAGAAATGTGAACTTGTTAGAGAAGCTTGTATG
 CAAGAGACTTTGTCATGTTAGTGGTCAATCTATACCCAGGAAATGAGGGATATTCTCTGATGCTCAGGG
 GAAAAACGGATCAGATTCCGAGACCATTCGACTGCCCTATGAAGAAGGAGAGTTGCTTGAATATTTGGA
 TGCAGAAGAATTACCTCTATTTTGGTTGATCTCTAGAAAAATCTCAGGTTAATATTTTTCATTGCGGA
 TGTGTCATAGCAGAAATACGTGACTACAGGCAGTCCAGTAACATGAAATCTCTGGTTACCAAAGTCGGC
 ACATTCTCTTACGTCCAACAATGCAGACTTTAATTTGTGATGTACATTCAATAACAAGTGATAACCACAA
 ATGGACCCAGGAAGACAACTTTTGCTTGAGAGCCAGCTCATCTAGCTACAGCTGAACCACTCTGTCTT
 GATCCTTCTATAGCAGTCACTGCACTGCAAAACAGACTGCTCTATAACAAGCAAAAGATGAACACTCGCC
 CAATGAAACGGTGTTCAGAGGTATTCAGATCCTCTCTGAATCGGCAGCAAGATCTATCTCATTGTCC
 ACCTCCTCCTCAGCTGAGGTACTTGATTTCTTACAAAAAGAAAGGAAAGAAAGCAGGTCAGCATTAT
 GACCTCAAAATTTCTAAGGCAGGAAATGTGTAGATATGTGGAACCGAGTCCCTGTAATTTGGCCATAC
 CTTCTGAAGTAGATGTGGAGAAATATGCTAAAGTGGAAGTCTATCAAATCTGATGACTCACAGCCAAC
 AGTCTGGCCAGCCATGATGTAAAGATGATTATGTATTTGAATGTGAAGCTGGTACTCAGTATCAGAAA
 ACAAAGCTGACCATCTTGCACTCGCTTGAGATCCACTTTACTATGGTAAATACAGCCATGTAAAGCAG
 ATGAAGAAAGTGACAGCCAGATGTCTCCATCACACTCGTCCACAGATGATCATTCAAATTTGGTTTATTAT
 TGGATCAAGACCGATGCTGAGAGGGTAGTCAATCAGTACCAAGAATTAGTCCAGAATGAAGCCAATGT
 CCGGTCAAGATGTACACAGCTCCAGTGCTCAGCCAGTCTGAGTCAGGTTTCTCCAGGGAAGAAACAG
 ATCAAACCTGAAACCGTGTGAGTTCAGTCTTCGGTATTGGGAAGGGTGTAACATCGACCCCCACCAAT
 CAACTTCCCTCAAGCTCAGGAAATAGTTCCTCAGGTAATTTTACACCACAACAGACAAGCAGCTTT
 CTCAAATCTCAACTCTCCTCTTCTTCTAAGCCATCAAGTATTCCTCGGAAATCATCTGTGGATCTCA
 ATCAAGTTAGCATGCTTTCTCAGCTGCCCTATCACCTGCCAGCTCATCACAAGAACCACGGCCACCCA
 GGTCTGGAAGCTCTGCTGGACTTAATTCATCAATGTAGTGGGCTCTGTTTGTGGGGCCAGGCTTTG
 ATGAGTGGTTCAAACCCATGCTGGGCTGTAACTGGTGCCATAACTCCTGCAGGAATAAACCTGAGCG
 GCCTTCTACCCTCAGGAGGTCTGTACCAAATGCACTGCCAGTGAATGCAGGCAGCTTCTCAAGCAGG
 TGTTCATTTGGTTTAAAAAATCTTCAAGTCTCAGGCCCTTAAATCTACTCCAGCTTCCAGGTGGTTCA
 CTTATTTTAACTCTGCAGCAGCAGCAACAGCAGCTCTCCAGTTTACACCACAACAACCTCAGCAGC
 CCACAACCTGTAGTCTCAACAGCCAGGGGAGCAGGGTCTGAGCAAGGTTCAACCAGTCAAGAACAGGC
 CTTATCTGCTCAGCAAGCTGCTGTTATTAACCTTACTGGAGTAGGAAGTTTATGCAGTCACAGGCAGCT
 GCAGTTGCGATTCTTGAGCATCAAATGGCTATGGCAGCAGCAGCAGCACAACAGCTCAGCTACATCAT
 CATCGGCATACAGGCAGCCAGTCAAAAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG218970 representing NM_017569
 Red=Cloning site Green=Tags(s)

MQQALELALDRAEYVIESARQRPKRKYLSSGRKSVFQKLYDLYIEEKEPEVKQKLRNRNVNLEKLV
 QETLSCLVYNLYPGNEGYSMLRGKNGSDSETIRLPYEEGELLEYLDAELPPIVLDLLEKSQVNIHFCG
 CVIAEIRDYRQSSNMKSPGYQSRHILLRPTMQTLICDVHSITSDNHKWTQEDKLLLESQILATAEPLCL
 DPSIAVTCTANRLLYNKQKMNTRPMKRCFKYRSRSSLNRQQDLSCPPPPQLRLDLQKRKERKAGQHY
 DLKISKAGNCVDMWKRSPCNLAIPSEVDVEKYAKVEKSIKSDSQPTVWPAHDVKDDYVFECEAGTQYQK
 TKLTILQSLGDPLYGKIQPCKADEESDSQMSPSHSSTDHNSWFIIGSKTDAERVVNQYQELVQNEAKC
 PVKMSHSSSGSASLSQVSPGKETDQTETYSVQSSVLGKGVKHRPPPIKLPSSSGNSSGNYFTPQQTSSF
 LKSPTPPPSSKPSIIPRKSSVDLNQVSMSPAALSPASSQRTTATQVMANSAGLNFINVGVSVCGAQAL
 MSGSNPMLGCNTGAITPAGINLSGLLPSSGGLLPNALPSAMQAASQAGVPFGLKNTSSLRPLNLLQLPGGS
 LIFNTLQQQQQLSQFTPQQPQQPTTCSPPQGEQGEQGSTSQEQALSAQQA VINLTGVGSFMQSQAA
 AVAILAASNGYGSSSSTNSSATSSAYRQPVKK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_017569

ORF Size: 2199 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_017569.3](#), [NP_060039.1](#)

RefSeq Size: 2981 bp

RefSeq ORF: 2202 bp

Locus ID: 55578

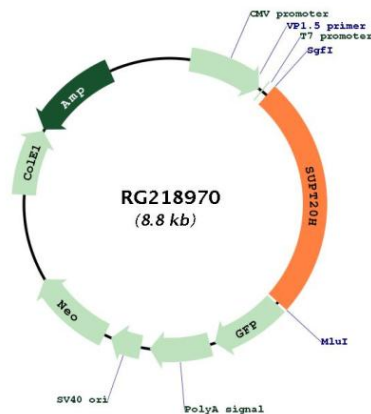
UniProt ID: [Q8NEM7](#)

Cytogenetics: 13q13.3

Protein Families: Transcription Factors

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 RG218970