

Product datasheet for **RC204600**

FAM172A (NM_032042) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM172A (NM_032042) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM172A
Synonyms:	C5orf21; Toupee
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204600 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTATTTCTTGAGCTCTTTAATTTTGTGCCAATTTGGATAAACATGGCACAAATCCAGCAGGGAG
GTCCAGATGAAAAAGAAAAGACTACCGCACTGAAAGATTTATTATCTAGGATAGATTTGGATGAACTAAT
GAAAAAGATGAACCGCCTCTTGATTTTCCTGATACCCGGAAGGATTTGAATATGCTTTAATGAAAAG
GGACAGTTAAGACACATAAAAACTGGGGAACCATTTGTTTTAACTACCGGAAGATTTACACAGATGGA
ACCAGAAAAGATACGAGGCTCTAGGAGAGATCATCACGAAGTATGTATATGAGCTCTGGAAAAGGATTG
TAATTTGAAAAAGTATCTATTCCAGTAGATGCCACTGAGAGTGAACCAAGAGTTTTATCTTTATGAGT
GAGGATGCTTTGACAAATCCACAGAAAAGTATGTTTTAATTCATGGTAGTGGTGTGTCAGGGCAGGGC
AGTGGGCTAGAAGACTTATTATAAATGAAGATCTGGACAGTGGCACACAGATACCGTTTATTAAGAGC
TGTGGCTGAAGGATATGGAGTAATAGTACTAAATCCCAATGAAAAGTATATTGAAGTAGAAAAGCCGAAG
ATACACGTACAGTCATCATCTGATAGTTCAGATGAACCAGCAGAAAAACGGGAAAGAAAAGATAAGTTT
CTAAAGAAACAAGAAGCGACGTGATTTCTATGAGAAGTATCGTAACCCCAAGAGAAAAGAAAATGAT
GCAATTTGATATCAGAGAAAATGGTCTCCTGAAGAACATGCAATCTATGTTTGGGATCATTTCATAGCT
CAGGCTGCTGCTGAGAATGTGTTTTTTCGTTGCTCACAGCTATGGGAGGACTGCTTTTGTGAAGTATGA
TTCAACGAGAAGCCGATGTAATAAATAAGGTAAGTCTGTGGCATTGACAGACTCTGTTTCAATGTGTG
GCATCAAGAAGCTGGCAAACGATTTCGAGAATGGATGAGAGAGAAGTGTGTAATTGGGTCTCTAGCTCA
GAACCATAGACACATCAGTGGAGTCCATGCTACCTGATTGCCCCGGGTCTCAGCAGGCACCGACCGTCT
ACGAGCTAACTTCTGGAAGAGCTTCCGCTATTTTCAAATCTTTACCGAAGCCTCAGAGGCCAAGAC
CAGCTCCCTGAAGCCGGCTGTGACGCGCCGCTCCACCGCATCAAGCACGAAGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCTCAGAAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204600 protein sequence
Red=Cloning site Green=Tags(s)

MSISLSSLILLPIWINMAQIQGGPDEKEKTTALKDLLSRIDLDELMMKDEPPLDFPDTLEGFEYAFNEK
 GQLRHIKTGEPFVFNREDLHRWNQKRYEALGEIITKYVYELLEKDCNLKKVSIPVDATSEPKSFIFMS
 EDAL TNPQKLMVLIHGSGVVRAGQWARRLIINEDLDSGTQIPFIKRAVAEGYGVIVLNPENYIEVEKPK
 IHVQSSSDSSDEPAEKREKDKVSKETKKRRDFYEKYRNPQREKEMMQLYIRENGSPEEHAIVVDHFIA
 QAAAENVFFVAHSYGGLAFVELMIQREADVKNKVTAVALTDSVHNVWHQEAGKTIREWMRENCNWWSSS
 EPLDTSVESMLPDCPRVSAGTDRHELTSWKSFPSIFKFFTEASEAKTSSLKPAVTRRSHRIKHEEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6538_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032042

ORF Size: 1248 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_032042.6](#)

RefSeq Size: 4720 bp

RefSeq ORF: 1251 bp

Locus ID: 83989

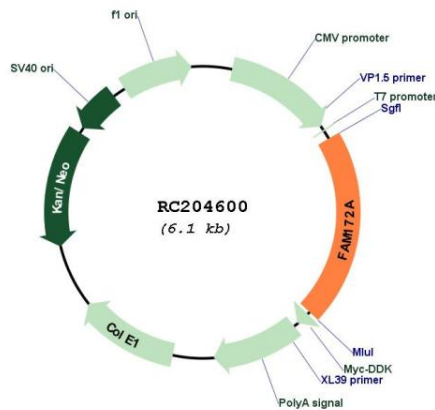
UniProt ID: [Q8WUF8](#)

Cytogenetics: 5q15

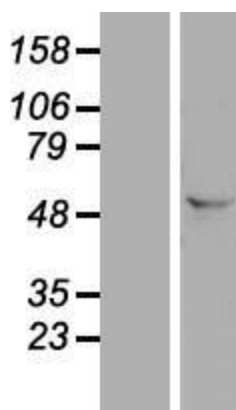
MW: 48 kDa

Gene Summary: Plays a role in the regulation of alternative splicing, by interacting with AGO2 and CHD7. Seems to be required for stabilizing protein-protein interactions at the chromatin-spliceosome interface. May have hydrolase activity.[UniProtKB/Swiss-Prot Function]

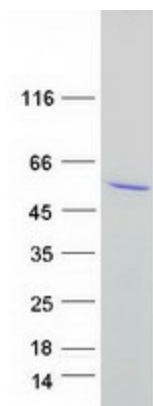
Product images:



Circular map for RC204600



Western blot validation of overexpression lysate (Cat# [LY410351]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204600 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FAM172A protein (Cat# [TP304600]). The protein was produced from HEK293T cells transfected with FAM172A cDNA clone (Cat# RC204600) using MegaTran 2.0 (Cat# [TT210002]).