

Product datasheet for **RG204600**

FAM172A (NM_032042) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM172A (NM_032042) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FAM172A
Synonyms:	C5orf21; Toupee
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204600 representing NM_032042 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTATTTCTTGAGCTCTTTAATTTTGTGCCAATTTGGATAAACATGGCACAAATCCAGCAGGGAG
GTCCAGATGAAAAAGAAAAGACTACCGCACTGAAAGATTTATTATCTAGGATAGATTTGGATGAACTAAT
GAAAAAGATGAACCGCCTCTTGATTTTCTGATACCCCTGGAAGGATTTGAATATGCTTTTAAATGAAAAG
GGACAGTTAAGACACATAAAAACTGGGGAACATTTGTTTTAACTACCGGAAGATTTACACAGATGGA
ACCAGAAAAGATACGAGGCTCTAGGAGAGATCATCACGAAGTATGTATATGAGCTCTGGAAAAGGATTG
TAATTTGAAAAAGTATCTATTCCAGTAGATGCCACTGAGAGTGAACCAAGAGTTTTATCTTTATGAGT
GAGGATGCTTTGACAAATCCACAGAAAAGTATGTTTTAATTCATGGTAGTGGTGTGTCAGGGCAGGGC
AGTGGGCTAGAAGACTTATTATAAATGAAGATCTGGACAGTGGCACACAGATACCGTTTATTTAAAAGAGC
TGTGGCTGAAGGATATGGAGTAATAGTACTAAATCCCAATGAAAAGTATATTGAAGTAGAAAAGCCGAAG
ATACACGTACAGTCATCATCTGATAGTTTCAGATGAACCAGCAGAAAAACGGGAAAGAAAAGATAAAGTTT
CTAAAGAAACAAGAAGCGACGTGATTTCTATGAGAAGTATCGTAACCCCAAGAGAAAAGAAAATGAT
GCAATTTGATATCAGAGAAAATGGTTCCTGGAAGAATGCAATCTATGTTTGGGATCATTTCATAGCT
CAGGCTGCTGCTGAGAATGTGTTTTTCTGTTGCTCACAGCTATGGAGGACTGCTTTTGTGAACTGATGA
TTCAACGAGAAGCCGATGTAATAAATAAGGTAAGTCTGTGGCATTGACAGACTCTGTTCCAAATGTGTG
GCATCAAGAAGCTGGCAAACGATTTCGAGAATGGATGAGAGAGAAGTGTGTAATTGGGTCTCTAGCTCA
GAACCATAGACACATCAGTGGAGTCCATGCTACCTGATTGCCCCGGGTCTCAGCAGGCACCGACCGTCT
ACGAGCTAACTTCTGGAAGAGCTTCCGTCTATTTCAAATTTTACCGAAGCCTCAGAGGCCAAGAC
CAGCTCCCTGAAGCCGGCTGTGACGCGCCGCTCCACCGCATCAAGCACGAAGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204600 representing NM_032042
 Red=Cloning site Green=Tags(s)

MSISLSSLILLPIWINMAQIQGGPDEKEKTTALKDLLSRIDLDELKMKDEPPLDFPDTLEGFEYAFNEK
 GQLRHIKTGEPPVFNRYREDLHRWNQKRYEALGEIITKYVYELLEKDCNLKKVSIIPVDATESEPKSFI
 EDAL TNPQKLMVLIHGSGVVRAGQWARRLI INEDLDSGTQIPFIKRAVAEGYGVIVLNPENYIEVEKPK
 IHVQSSSDSDEPAEKREKDKVSKETKKRRDFYEKYRNPQREKEMMQLYIRENGSPEEHAIIYVWDHFIA
 QAAAENVFFVAHSYGGGLAFVELMIQREADVKNKVTAVALTDSVHNVWHQEAGKTIREWMRENCNWVSS
 EPLDTSVESMLPDCPRVSAGTDRHELTSWKSFPSIFKFFTEASEAKTSSLKPAVTRRSHRIKHEEL

TRTRPLE - GFP Tag - V

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032042.6](#)

RefSeq Size: 4192 bp

RefSeq ORF: 1251 bp

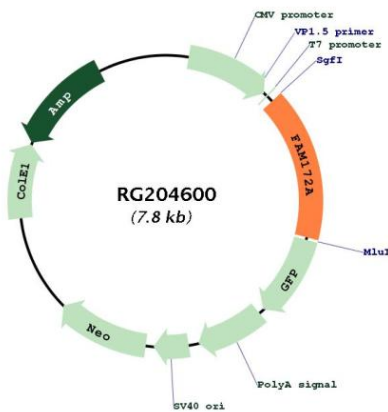
Locus ID: 83989

UniProt ID: [Q8WUF8](#)

Cytogenetics: 5q15

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 RG204600