

Product datasheet for **RG228239**

FAM172A (NM_001163418) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM172A (NM_001163418) 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:	>RG228239 representing NM_001163418 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAAAGATGAACCGCCTTTGATTTTCCTGATACCCTGGAAGGATTTGAATATGCTTTTAAATGAAA
AGGGACAGTTAAGACACATAAAACTGGGGAACATTTGTTTTAACTACCGGAAGATTTACACAGATG
GAACAGAAAAGATACGAGGCTCTAGGAGAGATCATCACGAAGTATGTATATGAGCTCCTGGAAAAGGAT
TGTAATTTGAAAAAGTATCTATCCAGAAGGATATGGAGTAATAGTACTAAATCCCAATGAAAACTATA
TTGAAGTAGAAAAGCCGAAGATACACGTACAGTCATCATCTGATAGTTCCAGATGAACCAGCAGAAAAACG
GGAAAGAAAAGATAAAGTTTCTAAAGAAAACAAGAAGCGACGTGATTTCTATGAGAAGTATCGTAAACCC
CAAAGAGAAAAGAAATGATGCAATTGTATATCAGAGAAAATGGTTCTCCTGAAGAACATGCAATCTATG
TTTGGGATCATTTCATAGCTCAGGCTGCTGCTGAGAATGTGTTTTTCGTTGCTCACAGCTATGGAGGACT
TGCTTTTGTGAACTGATGATTCACGAGAAGCCGATGTAAAAAATAAGGTAAGTCTGTGGCATTGACA
GACTCTGTTCACAATGTGTGGCATCAAGAAGCTGGCAAACGATTCGAGAATGGATGAGAGAGAAGTGT
GTAATTGGGTCTCTAGCTCAGAACCATTAGACACATCAGTGGAGTCCATGCTACCTGATTGCCCCCGGT
CTCAGCAGGCACCGACCGTCACGAGCTAACTTCCTGGAAGAGCTTCCGTCTATTTCAAATCTTTACC
GAAGCCTCAGAGCCAAGACCAGCTCCCTGAAGCCGGCTGTGACGCGCCGCTCCACCGCATCAAGCAGC
AAGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228239 representing NM_001163418
Red=Cloning site Green=Tags(s)

MKKDEPPLDFPDTLEGFEYAFNEKGQLRHIKTGEPFVFNRYREDLHRWNQKRYEALGEIITKYVYELLEKD
 CNLKKVSIPEGYGIVLNPENYIEVEKPKIHVQSSSDSDEPAEKREKDKVSKETKKRRDFYEKYRNP
 QREKEMQLYIRENGSPEEHAIYVDHFIAQAAENVFVAHSYGGLAFVELMIQREADVKNKVTAVALT
 DSVHNVWHQEAGKTIREWMRENCNWNVSSSEPLDTSVESMLPDCPRVSAGTDRHELTWSKSFPSIFKFFT
 EASEAKTSSLKPAVTRRSHRIKHEEL

TRTRPLE - GFP Tag - V

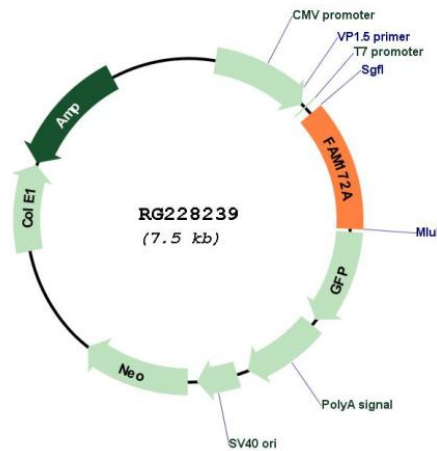
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001163418

ORF Size: 918 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:	<ol style="list-style-type: none">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_001163418.1 , NP_001156890.1
RefSeq Size:	4404 bp
RefSeq ORF:	921 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]