

Product datasheet for **MG212907**

Fam172a (NM_138312) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam172a (NM_138312) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fam172a
Synonyms:	53-E6; 1110033M05Rik; 2610318O14Rik; 9430037D06Rik; AF064782; pEN87
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG212907 representing NM_138312 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTATTTCTTGAGCTCTTTAATTTCTTGCCAATTTGGATAAACATGGCACAAATGCAGCAGGGAG
GTTCAAATGAAACAGAACAGACTGCAGCATTGAAAGATTTGCTGTCTAGGATCGATTTGGATGAACATCAT
GAAAAAGGACGAACCACCTTTTGATTTCCAGATACACTGGAAGGCTTTGAATATGCTTTAATGAAAAG
GGCGAGTTAAGACACATAAAAACTGGGGAACATTTGTTTTAACTACCGAGAAGACTTACACAGGTGGA
ACCAGAAAAGATATGAAGCTCTGGGCGAGATCATCACAAGATATGTTTATGAGCTCTGGAAAGTGACTG
TAATTTGAAAAAATCTCTATTCCAGTAGATGCCACTGAGAGTGAACCAAGAGTTTTATCTTTATGAGT
GAGGATGCTTTGACAAATCCACAGAAAAGTATGTTTAAATTCATGGTAGTGGTGTGTGTCAGGGCAGGTC
AGTGGGCTAGAAGGCTTATTATTAATGAAGATCTGGACAGTGGCACACAGATACCTTTTATTAAGAGAGC
TATGGATGAAGGGTATGGAGTCACTCGTCTGAACCAAAATGAAAATATATAGAAGTGGAAAAGCAGAAA
ATGCATAAACAGTCATCATCTTCTGATGGTACAGATGAGCCAGCAGGGAAGCGGAAAGGAGAGATAAGG
TCTCAAGGAAACAAAGAAGCGTCGTGATTTCTATGAGAAGTACCGCAACCCTCAAAGGAGAAAAGAAAT
GATGCAGTTGTTTATCAGGGAAAATGGTCTCTGGAAGAGCATGCGGTCTATGTGTGGGACCATTTTCATA
GCCCAGGCTGCTGCTGAGAATGTGTTCTTTGGCTCATAGCTATGGAGGACTTGCTTTTGTGAAGTGA
TGATTCACGAGAAGCAGATGTAAAAAGTAAAGGTGACTGCTGTGGCATTGACAGACTCTGTTTACAAATGT
GTGGCATCAAGAAGCTGGCAAAACCATCCGAGAATGGATGAGAGAGAAGTGTGTAAGTGGTCTCCAGC
TCAGAACCATTAGATACATCGGTGGAATCCATGCTGCCTGACTGTCCCAGAGTGTCTGCAGGCACCGACC
GTCACGAGCTCACTTCTGGAAGAGCTTCCCGTCTATCTTCAAGTCTTTCGCGGAAGCCTCGGAGGCCAA
GAGCAGCTCGCAGAAGCCGGCCCTGACGCGGCGCTCGCACCGGATCAAGCAGGAGGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG212907 representing NM_138312
Red=Cloning site Green=Tags(s)

MSISLSSLIFLPIWINMAQMQQGGSNETEQTAALKDLLSRIDLDELMMKDEPPDFPDTLEGFEYAFNEK
 GQLRHIKTGEPPVFNRYREDLHRWNQKRYEALGEIITRYVYELLESDCNLKKISIPVDATESEPKSFIFMS
 EDALTNPQKLMVLIHGSGVVRAGQWARRLIINEDLDSGTQIPFIKRAMDEGYGVIVLNPNENYIEVEKQK
 MHKQSSSSDGTDEPAGKRERRDKVSKETKKRRDFYEKYRNPQKEKEMMQLFIRENGSPEEHAVYVDHFI
 AQAAAENVFFVAHSYGGGLAFVELMIQREADVSKSVTAVALTDSVHNVWHQEAGKTIREWMRENCCNWVSS
 SEPLDTSVESMLPDCPRVSAGTRHELTSWKSFPSIFKFFAEASEAKSSSQPALTRRSHRIKHEEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138312

ORF Size: 1251 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_138312.1](#), [NP_612185.1](#)

RefSeq Size: 4036 bp

RefSeq ORF: 1254 bp

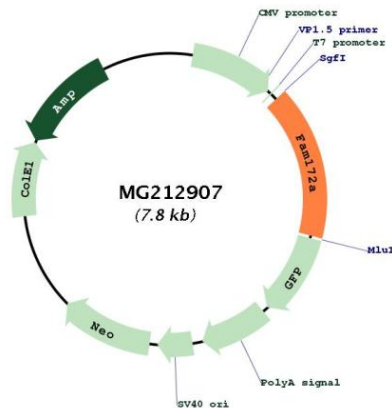
Locus ID: 68675

UniProt ID: [Q3TNH5](#)

Cytogenetics: 13 C1

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 (PubMed:29311329). May have hydrolase activity (PubMed:29311329). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG212907