

Product datasheet for MR212917

Fam172a (NM_001163420) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fam172a (NM_001163420) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fam172a
Synonyms: 53-E6; 1110033M05Rik; 2610318O14Rik; 9430037D06Rik; AF064782; pEN87
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR212917 representing NM_001163420
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAAAAGGACGAACCACCTTTTGATTTCCAGATACACTGGAAGGCTTTGAATATGCTTTTAATGAAA
AGGGGCAGTTAAGACACATAAAACTGGGGAACCATTTGTTTTAACTACCGAGAAGACTTACACAGGTG
GAACAGAAAAGATATGAAGCTCTGGGCGAGATCATCACAAGATATGTTTATGAGCTCCTGGAAAGTGAC
TGTAATTTGAAAAAATCTCTATTCCAGAAGGGTATGGAGTCATCGTCTGAACCCAAATGAAACTATA
TAGAAGTGAAAAAGCAGAAAATGCATAAACAGTCATCATCTTCTGATGGTACAGATGAGCCAGCAGGGAA
CGGGAAAGGAGAGATAAGGTCTCCAAGGAAACAAGAAGCGTCGTGATTCTATGAGAAGTACCGCAAC
CCTCAAAAGGAGAAAGAAATGATGCAGTTGTTTATCAGGGAAAATGGTTCTCCTGAAGAGCATGCGGTCT
ATGTGTGGGACCATTTTCATAGCCCAGGCTGCTGCTGAGAATGTGTCTTTGTGGCTCATAGCTATGGAGG
ACTTGCTTTTGTGAACTGATGATTCACGAGAAGCAGATGTA AAAAGTAAGGTGACTGCTGTGGCATTG
ACAGACTCTGTTCAATGTGTGGCATCAAGAAGCTGGCAAAACCATCCGAGAATGGATGAGAGAGAACT
GTTGTAAGTGGTCTCCAGCTCAGAACCATTAGATACATCGGTGGAATCCATGCTGCCTGACTGTCCAG
AGTGTCTGCAGGCACCGACCGTACAGAGCTCACTTCTGGAAGAGCTTCCCGTCTATCTTCAAGTTCTTC
CGGAAGCCTCGAGGCCAAGAGCAGCTCGCAGAAGCCGGCCCTGACGCGGCGCTCGCACCGGATCAAGC
ACGAGGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR212917 representing NM_001163420
 Red=Cloning site Green=Tags(s)

MKKDEPPFDPDITLEGFEYAFNEKGQLRHIKTGEPFVFNYREDLHRWNQKRYEALGEITRYVYELLES
 CNLKKISIEPGYGVIVLNPENYIEVEKQKMHKQSSSDGTDEPAGKRERRDKVSKETKKRRDFYEKYN
 PQKEKEMQLFIRENGSPEEHAVYVWDHFIAQAAAENFFVAHSYGGLAFVELMIQREADVKSKVTAVAL
 TDSVHNVWHQEAGKTIREWMRENCNWWSSSEPLDTSVESMLPDCPRVSAGTDRHELTSWKSFPISIFKFF
 AEASEAKSSSQPALTRRSHRIKHEEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001163420

ORF Size: 921 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_001163420.1](#), [NP_001156892.1](#)

RefSeq Size: 3720 bp

RefSeq ORF: 924 bp

Locus ID: 68675

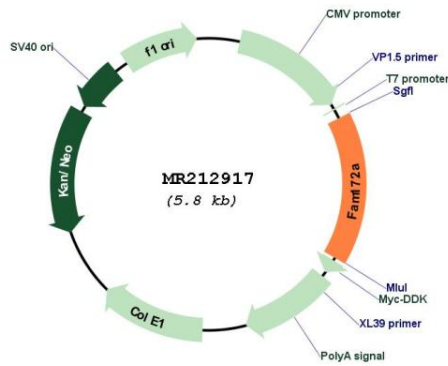
UniProt ID: [Q3TNH5](#)

Cytogenetics: 13 C1

MW: 36.3 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 (PubMed:29311329). May have hydrolase activity (PubMed:29311329). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR212917