

Product datasheet for RC203857

FAM122A (NM_138333) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM122A (NM_138333) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM122A
Synonyms:	C9orf42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203857 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTCAGGAGAAGATGGAGCTAGACCTGGAGCTGCCTCCGGTACGGGCGGGAGCCCGGCGGAGGGCG
GTGGCAGCGGGCGGGCGGGGGCCTCAGGAGGTCTAACAGCGCCCCCTGATCCACGGCCTCAGTGACAC
TTCGCCGGTGTCCAGGCCGAGGCGCCAGCGCCAGGCGGAACAGCACAACGTTCCCGAGCCGCCACGGC
CTGCTGCTGCCGGCCTCCCTGTCCGCATGCACAGCAGCCGCTTGACCAGATCAAACAAGAAGAGGGCA
TGGACTTGATCAACCGAGAGACGGTCCACGAACGGGAGGTGCAGACCGCAATGCAGATAAGCCACTCCTG
GGAGGAAAGTTTCAGCCTGAGTGACAACGACGTGGAGAAATCCGCTCCCCCAAGCGCATCGATTTTCATT
CCTGTGTCAACGACCCGTCACCCACTCGGGAATTGGGAAGCAGTGTTCGTCATCCTTGCAAAGTT
TTGTAAGTAGCAACGGATTGCCTCCAAGCCCTATCCCAGCCCAACGACCCGATTTACCACCCGGAGAAG
CCAGAGCCCCATCAATTGCATTAGACCAAGTGTCTTGGACCATTTGAAAAGAAAAATGTGAAATGGAACT
GAATATCAGCCAAAGAGATTTTCCAGGGCATCACCAACATGCTTTCTTCTGACGTTGCACAGCTGTGAG
ATCCTGGTGTGTGTATCTTCGGATACCCTTGATGGAACAGCAGCAGTGCCGGATCTTCTGTAACCTC
ACCAGCGAAAGTCAGCACTACCACCGACTCTCCTGTGTACCTGCCCAAGCGGCTTCTCCATTTATTCCA
CTAGATGAACTTTCGTCTAAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC203857 protein sequence
Red=Cloning site Green=Tags(s)

MAQEKMELDLELPPGTGGSPAEGGGSGGGGLRRSNSAPLIHGLSDTSPVFQAEAPSARRNSTTFPSRHG
 LLLPASPVRMHSSRLHQIKQEEGMDLINRETVHEREVQTAMQISHSWEEFSLSNDNVEKSASPKRIDFI
 PVSPAPSPTRGIGKQCFSPSLQSFVSSNGLPPSPIPSPTRFTTRRSQSPINCIRPSVLGPLKRCCEMET
 EYQPKRFFQGITNMLSSDVAQLSDPGVCVSSDTLDGNSSSAGSSCNSPAKVSTTTDSPVSPAQAASPFIP
 LDELSSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6306_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138333

ORF Size: 861 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_138333.5](#)

RefSeq Size: 3646 bp

RefSeq ORF: 864 bp

Locus ID: 116224

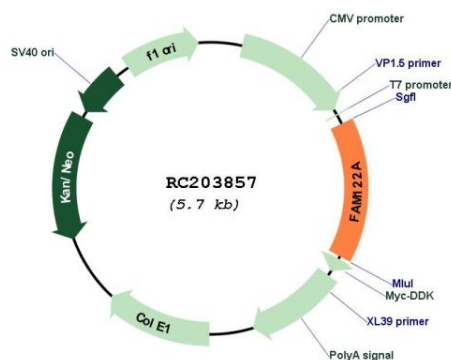
UniProt ID: [Q96E09](#)

Cytogenetics: 9q21.11

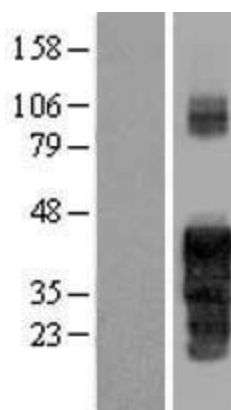
MW: 30.5 kDa

Gene Summary: Acts as an inhibitor of serine/threonine-protein phosphatase 2A (PP2A) activity. Potentiates ubiquitin-mediated proteasomal degradation of serine/threonine-protein phosphatase 2A catalytic subunit alpha (PPP2CA).[UniProtKB/Swiss-Prot Function]

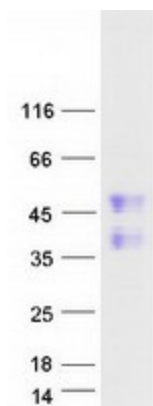
Product images:



Circular map for RC203857



Western blot validation of overexpression lysate (Cat# [LY408620]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203857 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FAM122A protein (Cat# [TP303857]). The protein was produced from HEK293T cells transfected with FAM122A cDNA clone (Cat# RC203857) using MegaTran 2.0 (Cat# [TT210002]).