

Product datasheet for **RC205443**

FAM81A (NM_152450) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | FAM81A (NM_152450) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | FAM81A |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC205443 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGCATCTAAGGCGAGTGAGAACCATGCCCGACACAGCCAGTCCCTGACAATGGCACCATACTCATCTGTAAGCCTCGTGGAGCAGCTGGAAGACAGGATCCTCTGCCATGAGAAAACACCGCCGCCCTCGTAGAGCACGCTTTTCGGATTAAAGATGACATTGTCAACAGTTTGCAGAAAATGCAAAACAAGGGGGAGGTGACCGCTTGGCCAGGCTTTTCTTGAGGAGCATATCAGAAACATAACTGCCATAGTGAAGCAACTTAATCGGGATATCGAGGTACTCCAGGAGCAGATTCTGTCTCGGGACAACATTAGCTATGGAATAATTCTGCCTTAAAGACCCTGGAGATGCGCCAGCTCTCCGGTTTGGGAGATCTTCGAGGAAGAGTGGCAAGATGTGATGCCAGCATAGCTAGACTTTCTGCAGAGCACAAAACGACCTATGAGGGGCTCCAGCACTTGAACAAGAACAGCAGGCTGCCAAACTTATCTTGAAACGAAAATCAAAGATGCAGAGGGACAGATTTCTCAGCTTTTGAACAGAGTGGACTTGTCAATATCAGAGCAGAGCACCAAAGTGAAGATGTCTCACAGAGACAGTAACCACCAGCTTCAGCTTTGGACACTAAATTTAAAGGTACAGTTGAGGAACAGTAACCAGATATTATCTGCACGGAGTTGGTTGCAACAGGAACAAGAACGGATAGAAAAGAGCTTTTACAGAAAATTGATCAGCTTTCCTTGATTGTTAAGGA AACAGTGGAGCCAGTAAAAGGGATATGGAGAAGAAGCTCAGCCAGATGTCAGCCAGGCTTGACAAAATA GAAGAGGGTCAAAGAAGACTTTTGATGGTCAGAGAACAAGGCAAGAAGAGGAGAAGATGCACGGGCGAA TCACCAAGCTGGAGTTACAGATGAACCAGAACATCAAGGAAATGAAAGCAGAAGTTAATGCTGGGTTTAC AGCCGTCTATGAAAGCATAGGATCCATCAGGCAAGTTCTCGAGGCCAAGATGAAGCTGGACAGGGACCAG CTACAGAAGCAAATCCAGCTGATGCAGAAGCCAGAGACCCCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205443 protein sequence
 Red=Cloning site Green=Tags(s)

MHLRRVRTMPRHSQSLTMAPYSSVSLVEQLEDRI LCHEKTTAALVEHAFRIKDDIVNSLQKMQNKGGDR
 LARLFLEEHIRNITAIVKQLNRDIEVLQEQIRARDNISYGTNSALKTLEMRQLSGLGDLRGRVARCDASI
 ARLSAEHKTTYEGLQHLNKEQQAAKLILETKIKDAEQI SQLLN RVDSLISEQSTKLKMSHRDSNHQLQL
 LDTKFKGTVEELSNQILSARSWLQQEQERIEKELLQKIDQLSLIVKENS GASERDMEKKLSQMSARLDKI
 EEGQKKTFDQQRTRQEEEEKMHGRITKLELQMNQNIKEMKAEVNAGFTAVYESIGSIRQVLEAKMKLDRDQ
 LQKQIQLMQKPETPM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6312_g02.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_152450

ORF Size: 1095 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_152450.1](#), [NP_689663.1](#)

RefSeq Size: 3468 bp

RefSeq ORF: 1107 bp

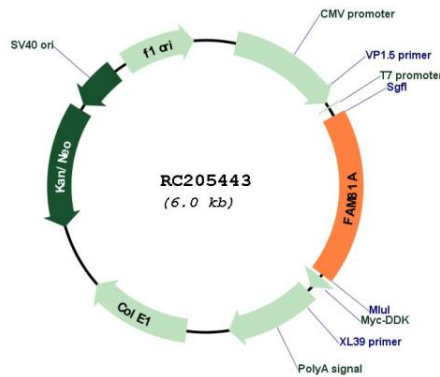
Locus ID: 145773

UniProt ID: [Q8TBF8](#)

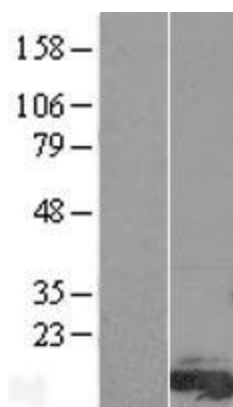
Cytogenetics: 15q22.2

MW: 42 kDa

Product images:



Circular map for RC205443



Western blot validation of overexpression lysate (Cat# [LY407488]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205443 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).