

Product datasheet for **RC229997**

FAM53A (NM_001174070) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM53A (NM_001174070) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM53A
Synonyms:	DNTNP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229997 representing NM_001174070 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCACACTCATCACTGAGAAGCTGCAGAGCCAGAGCCTGGACGACCTCACCTGCAAGGCGGAGGCTG
GCCCGTTGCAGTATTCTGCGAAACCCGTAACAAGAGCGGTCTGTCTGTTCCCTTTGGAGCTCAACGACCA
GAGTCCCTGGAAGGTCTTCAGTGGAGGACCGCCCGTCAGAAGCCAGGCAGCCACGGGCCCTGATTTCTCC
TTCTGCCGGCCTGTCTGCTGCCGCTCACACCATGGGTCTTCAGTGGCAGCCACAGTCCCCGCGCCGAC
GCGCAGGCTGGGTGCAGCCAGCACCGTGGACCCAGTAAAGCACAGGCTCGTCCACGGCCCCACCGAC
CAAGCGGCATTGCCGGTCTTGTGAGAACCAGAGGACTTGTGCGCTGCCGGTCCCCCTGGCGCCCCGGC
AGCTCAAAGTCTGGACTCCAGTCTCAAGAGGCGGTGCGACAGCGCGGGAGTGCCACGCGGCAGGGAA
GCCCGCGCGCCGTCTGCGGAGGAGTGCTGTGGTTCGACCGGTCCCACCTCGCCCGCCACGCCCCGGCC
GTCCTCCGCCAGCGCGGCTTCTGGACAGCAGCGAGGGCAGTGCAGGCTCAGGCCCGCTCTGGTGTTC
GCGGAGTCTGCTTGCCCTCCACGAGGCGCCCGCCGTCCCTCTCACAGGAGCGACTCGCGGGTGCAGGCA
CTCCCCTGCCCTGGGCCAGCAGCAGCCCCACGTCCACGCTGCGCTGGCGGGGCGCGCTGGGCTGCTCCG
GTGCCGCTCACAGCCTTGCGTGTCTAGTGGGAAGAGGAGCGCGCAAACGGAGGCGTGAGGAGGACGCC
AGGTGGACAGCCCATCCTTGACTTCTGAAAATGACCCAGACTTTAAAAAATCAAAAAGCCTTTGCT
CCCTCAATTACGAAGATGACGATGAGGATGACACCCAGTGAAGACGGTTCTGTCCTCCCATGTGACTC
CCGGGGCCTCCCTGGCATCACCATGCCTGGCTGCAGCCAGAGGGCCCTCAGGACCAGCCCTGTCCACCCC
AACCTGTGGGCTCTAGGGAGTCGGTGACCAGTATGGCTCCCGCAGGAGCAGCGGGACCCCCGTGATG
GGGACAGTGTGGGGAGGAGGGCTCTCCCCGGGCCGCTGGGAGCTGGACCTGGAGCAGATCGAGAA
CAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC229997 representing NM_001174070
Red=Cloning site Green=Tags(s)

MVTLITEKLSQSLDDL TCKAEAGPLQYSAETLNKSGRLFPELNDQSPWKVFSGGPPVRSQAATGPDFS
 FLPGLSAAHTMGLQWQPQSPRPAGLGAASTVDPSESTGSSTAPPTKRHCRSLSEPEELVRCRSPWRPG
 SSKVWTPVSKRRCDSGGSATRQGSFGAVLPRSAVWSTGPTSPATPRPSSASGGFVDSSEGSAGSGLWCS
 AESCLPSTRRRPSSLQERLAGAGTPLPWASSSPTSTPALGGRRGLLRCSRQPCVLSGKRSRRKRREEDA
 RWTRPSLDFLKMTQTLKNSKSLCSLNYEDDDEDTPVKTVLSSPCDSRGLPGITMPGCSQRGLRTSPVHP
 NLWASRESVTSDGSRSSGDPDRDGSVGEEGVFRARWELDLEQIENN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8057_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001174070

ORF Size: 1194 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_001174070.2](#), [NP_001167541.1](#)

RefSeq ORF: 1197 bp

Locus ID: 152877

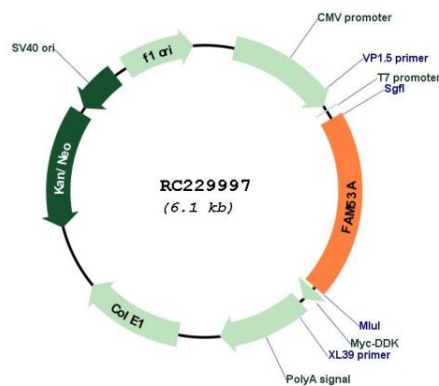
UniProt ID: [Q6NSI3](#)

Cytogenetics: 4p16.3

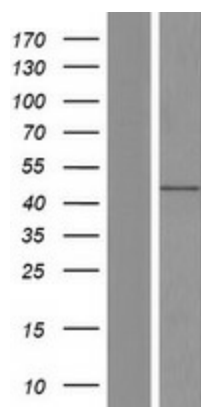
MW: 43 kDa

Gene Summary: May play an important role in neural development; the dorsomedial roof of the third ventricle.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC229997



Western blot validation of overexpression lysate (Cat# [LY432997]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229997 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).