

## Product datasheet for MR206305

### Fam53a (NM\_178390) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fam53a (NM_178390) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fam53a
Synonyms:	2410018C17Rik; 5430419M09Rik; Dntnp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206305 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCACTCTCATCACAGAGAAGCTGCAGAACCAGAGTTTGGATGACCTCACCCGAGGGCCTGTGAGG  
CTGGCCCGTATTCTGCTGAGAAGCTGAACAAAAGTGGCCATTTGTTCCCTTTGGAGATCAGCGTGGATAA  
AAGTCCCTGGAAGGCCTTACGTGGAGGATGGCCACTGGAAGCCAGGCAGCCTCAGGCCCTTCTCAGTG  
GGCCACATGGTGTCTCACACGAAGGTCTCAAGTGGCAGCTGGAATCCCAGGGCCCATGGATGTGG  
GCCATTTCTGGACCTCCATGATAGCACAGGGCCACCTGCAGCACCACCAACCAAGCGACTGCCGGTC  
CCTGTCAGAACCAGAGGAGCTAGCTCGATGCCGCTCCCGTGGCGCCCTGGTAGCTCCAAGGTGTGGACT  
CCCATCTCCAAGAGGAGGTGCAACAGTGGTGGGAGTGCCACACTTCAGTGCTGCAGCGCGTGGGCAACC  
CTACTCTGCAGGGCACTTAGTCCCTGGCCTACCCAGGAGGCCTGTGTCACCCGCTGGCCCTACCTCACC  
CCTGACGCCCCGGCCAGCTTACGCCAGCAGTGGCTTTGTGGATGGCAGTGGGGCAGTACAAGCTCAGGC  
CCACCCTGGCTTTCTACAGGACCTGCCATTTTCTTCCAGGCGCCGACTGTCCCTCTACAAGAGCACC  
TTGTAGATACAGGCGCTTGCCCTGCCTTCAGCCAGCAGCACCCCACTTCCACACTGAGCTAGGCCGGCA  
CCATGGCCTGCTCCGGTGGCGCTCACAGCCTTGTGTATTGGATGGGAGGAGGGTCCGGCGCAAGCGAAGA  
CGGGAGGAGGATGCCAGGTGGACACGCCGCTCCTGGACTTTCTGAAAATGACACGGACTTTAAAAAAT  
CCAAGAGCCTTTGCTCCCTGGACTATGAAGACGATGAGGATGACACCCAGGAGAAGACTCTTGTGTCTC  
CCCGTGTAACTCACAGGGCCTCGTGGGCATCATCACACCAGCTTAGCCCAAGGATTCCAGGCCCTGGC  
CCTGACAGCCCCAGTGTCTGGGCGTCAGGGGAGCCAGAGGCCAGCCAGGCGAGGGTGGGAGCAGTGGG  
ACCCAGTGACTGGGACAGTGCAGGAGAGGAGGGCATTTCCCACTGGACCACGGCGACCTGGACTTGA  
GCAGATTGAGAACAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206305 protein sequence  
Red=Cloning site Green=Tags(s)

MVTLITEKLQNQSLDDL TRRACEAGPYSAEKLKNSGHLFPLEISVDKSPWKALRGGWPTGSQAASGPFVS  
 GPHGVSHTEGLKWQLESPGPM DVGHFLDLHDSTGPPAAPPTKRHCRSLSEPEELARCRSPWRPGSSKVWT  
 PISKRRNCSSGGSATLQCCSGVGNPTLQGTLPGLPRRPVSPAGPTSPLTPRPASASSGFVDGSEGSTSSG  
 PPWLSTGPCPFSSRRRLSLSQEHLVDTGACLPASSTPTSTPELGRHHGLLRCSRQPCVLDGRRVRRKR  
 REEDARWTRPSLDFLKMTRTLKNSKSLCSLDYEDDEDDTQEKTLVSSPCNSQGLVGIITPSSSPRI  
 PRPG PDSPSVWASGEPEASPGEGGSSGDPDSDWSAGEEGIFPLDHGDLLEQIENN

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\_178390

**ORF Size:** 1209 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\\_178390.1](#), [NM\\_178390.2](#), [NM\\_178390.3](#), [NP\\_848477.1](#)

**RefSeq Size:** 2028 bp

**RefSeq ORF:** 1209 bp

**Locus ID:** 74504

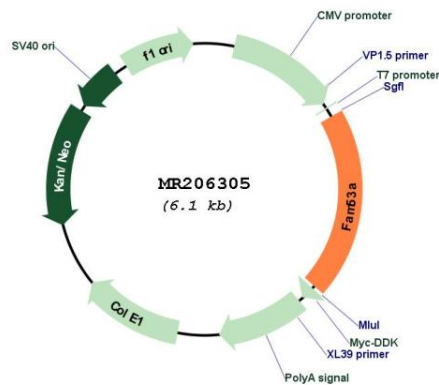
**UniProt ID:** [E9PV82](#)

**Cytogenetics:** 5 B2

**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 MR206305