

## Product datasheet for **MR208354**

### Fam126a (NM\_053090) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fam126a (NM_053090) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fam126a
Synonyms:	AB030242; Drctnnb1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208354 representing NM\_053090  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTACCTCAGAGATAGGAGTTGTGGAAGAATGGCTGTCAGAATTTAAGACACTCCAGAAACATCTT  
 TGCCAAATTATGCCACAAATTTGAAAGACAAGAGTTCTTTAGTTACATCTCTATAAAAGTTATCCAGGA  
 GCCACAGAGTGAGTTACTAGAGCCCGTGTGTACCAGCTCTTTGAGTTCTACCGAGTGGGAGGAGCAG  
 CTGCTGCGCTTCACTCTGCAGTTCCTCCCGAGCTGATGTGGTGTACCTCGCCGTGTCGGCCAGCAGAG  
 ATGTGCACAGCAGCGGCTGCATTGAGGCTCTCTGCTGGGGTTTACAACCTGGAATAGTTGACAAACA  
 CGGACATAGTAAAGTATTGAGTTTACAATCCATCTTTATCAAACCATCTGTATATCATGAACCTTCC  
 AGCATTGGGTCTATGGCGCTGACGGAGAGTGGCTGTCCAGCATGGCTTATCAAAGTCGTGTACAGTG  
 GACCCCATCTCAACGGGAGATGCTGACAGCACAGAACAGGTTTGAAGTATTGACATTCCTTCTGCTGTG  
 TTACAATGCTGCCTAACCTACATGCCAGTGTCTCTTTCAGTCACTGTGTGAGATTTGTTCAAGATA  
 TGTGTCTGTGGCTATCCCGACAACATGTAAAGAAATACAGAGGTGTGAGCAGCAGGATACCGATTCAT  
 CCGGCTTCATGGTGCAGATGCTAACAGGAGTGTATTTGGCATATACAATGGAGAATGGGATCTAGCTCA  
 GAAAGCACTGGATGACATTATATACAGAGCCAGCTAGAATTGTATCCAGAGCCTCTGCTGGTTGCTAAT  
 GCAATAAAGGCTTCATTGCCTCATGGTGCCATGAAATCTAGTAAGGAAGGTACAAGGTGTATTCAAGTGG  
 AGATCACACCAACCTCCTCTAGAATATCAAGAAATGCAGTTACCAGCATGTCAATACGAGGTCACAGGTG  
 GAAAAGACATGGAGATACAGAATTAACAGGTCAAGAAGAACTGATGGACATAACTGAAGTTGACGAGGGA  
 TTTTATCCAGGGCTGCGTCTAGCACCAGCCAGTCGGGTCTATCAAACAGTAGTCACAATTGTAGTAACA  
 AGACAAGTGTAGGAAAGAACCAGAGACGGTCGGGAGGAAGCAAAGCTGGAGCGAAGGAGAGAACTGC  
 AGGGGAGTCTTGAGAGATCACTTTGCTCGCAAGCAAACCCAGAGAGCCAGAGCGAGAACCTTGAGCTT  
 CTCTCTGAAGAGACTGACCTAACCTCCAGCCAGTCCCTGCCAAGCCAGCAGCCAAGGCTGGCTA  
 AGACTGCGCCACTGTATTTAGTAAATCCTTTGAACAAGTCAGTGGTGCCCCAGTCCCACGTAGCCCTTC  
 TCCCGCCATTGGCTGTGTGCTGGAGCAGATGCCAATAGATTTTCTGCCTGTAGTCTCCAAGAAGAAAAG  
 CTTATTTATGTGCAGAAAGGACTGAACCTGCAGTGAAGTGTCAAGCCGGCCAGCAGGGACCTCTAGTA  
 TTAGCGTCACTCTGTCTGCAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208354 representing NM\_053090  
 Red=Cloning site Green=Tags(s)

MFTSEIGVVEEWLSEFKTLPETSLPNYATNLKDKSSLVTSLYKVIQEPQSELLEPVCHQLFEFYRSGEEQ  
 LLRFTLQFLPELMWCYLAVSASRDVHSSGCIALLLVYVLEIVDKHGHKVLFSFIPSLKPSVYHEPS  
 SIGSMALTESALSQHGLSKVVYSGPHQREMLTAQNRFEVLTFLLLCYNAALTYMPSVSLQSLCQICRSI  
 CVCGYPRQHVRYRGVSSRIPISGFMVQMLTGVYFAIYNGEWDLAQKALDDIIYRAQLELYPEPLLVAN  
 AIKASLPHGAMKSSKEGTRCIQVEITPTSSRISRNAVTSMSIRGHRWKRHGDTEL TGQEELMDITEVDEG  
 FYSRAASSTSQSGLSNSSHNCNKT SVGKNQRRSGGSKAGAKERETAGESCRDHFARKQTQRAQSENLEL  
 LSLKRLTLTSSQSLPKPSSQGLAKTAATVFSKSFQVSGAPVPRSPSPAIGCVAGADANRFSACSLQEEK  
 LIYVSETELAVKCQAGQQPPSISVTL SAE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9044\\_c09.zip](https://cdn.origene.com/chromatograms/mm9044_c09.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:

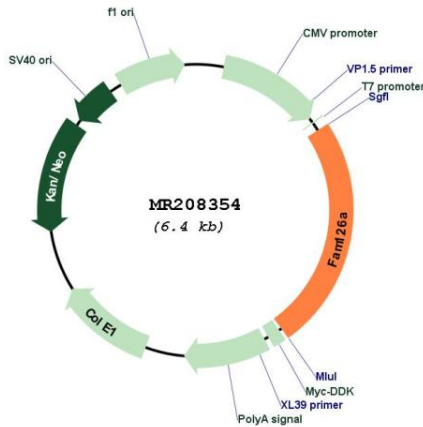


- ACCN: NM\_053090
- ORF Size: 1563 bp
- OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with 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\\_053090.3](#)
- RefSeq Size: 5652 bp
- RefSeq ORF: 1566 bp
- Locus ID: 84652
- UniProt ID: [Q6P9N1](#)
- Cytogenetics: 5 A3

**MW:** 57.8 kDa

**Gene Summary:** Component of a complex required to localize phosphatidylinositol 4-kinase (PI4K) to the plasma membrane. The complex acts as a regulator of phosphatidylinositol 4-phosphate (PtdIns(4)P) synthesis. FAM126A plays a key role in oligodendrocytes formation, a cell type with expanded plasma membrane that requires generation of PtdIns(4)P. Its role in oligodendrocytes formation probably explains its importance in myelination of the central and peripheral nervous system. May also have a role in the beta-catenin/Lef signaling pathway.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208354