

Product datasheet for **MR208306**

Fus (NM_139149) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fus (NM_139149) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fus
Synonyms:	D430004D17Rik; D930039C12Rik; Fus1; Tls
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208306 representing NM_139149
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTCAAACGACTATACCCAACAAGCAACTCAAAGCTACGGGCCTATCCTACCCAGCCTGGGCAGG
 GCTACTCCAACAGAGCAGTCAGCCCTATGGCCAACAGAGTTACAGTGGTTATGGCCAGTCAGCTGACAC
 TTCAGGATACGGCCAGAGCAGCTATGGTTCTTCTTATGGACAGACCCAAAACACAGGCTATGGAACCTCAG
 TCAGCTCCCAGGGATATGGTTCCACTGGAGGCTATGGCAGCAGCCAAAGTTACAATCTTCTTATGGGC
 AGCAGTCTCTACCCTGGCTATGGCCAACAGCCAGCTCTAGCAGCACCTCAGGAAGTTATGGTGGCAG
 TTCTCAGAGCAGCAGCTATGGGCAACCCAGAGTGGAGGTTATGGTCAACAGTCTGGCTATGGTGGACAG
 CAACAAAGCTACGGACAACAACAAGCTCCTATAACCCACCTCAGGGTTATGGACAACAGAACAGTACA
 ACAGTAGCAGTGGAGTGGTGGAGGGGGTGGTGGAGGCAACTATGGCCAAGATCAGTCTCTATGAGTGG
 TGGCGGTGGCGGTGGTGGTTATGGCAATCAGGACCAGAGTGGTGGCGGCGCGGCGCTACGGGGGAGGC
 CAACAGGATCGTGGGGGCGAGGCGAGGGCGGTGGAGGTGGTTACAACCGAAGCAGTGGTGGCTATGAAC
 CCAGAGGCCGTGGAGTGGCCGAGGAGGAGGCGGCATGGGCGGAAGTGACCCGCGTGGCTTCAATAA
 ATTTGGTGGTCTCGGGATCAAGGATCTCGTCATGATTCTGAACAGGATAATTGAGACAACAATACCATC
 TTCGTGCAAGGCCTAGGCGAGAATGTTACAATTGAATCTGTGGCTGATTACTTCAAGCAGATTGGAATTA
 TTAAGACAACAAGAAAAGTGGACAGCCTATGATTAATTTGTACACAGACAGGAAAAGTGGCAAGTTGAA
 GGGTGAGGCAACAGTTTCATTTGATGACCCACCTTCTGCTAAAGCAGCTATCGACTGGTTTATGGTAA
 GAATTCCTGGGAATCCTATTAAGTTTCATTTGCTACCCGCGAGCTGACTTCAATCGGGTGGTGGAA
 ATGGTCGCGGAGGCCGAGGGCGAGGAGGCCATGGGCCGTGGAGGCTATGGAGGAGTGGCAGTGGTGG
 TGGTGGCCGGGGAGGATTCCCCAGTGGAGTGGTGGAGTGGAGGACAGCAACGAGCTGGAGACTGGAAG
 TGTCTAATCCTACATGTGAGAATGAACCTCTCTGGAGAAAATGAATGCAACAGTGTAAAGCACCTA
 AGCCAGATGGCCAGGAGGGGACCAGGAGGCTCTCATATGGGGGAAAATATGGAGATGATCGACGTGG
 CAGAGGAGGATATGACCGGGGCGGCTACCGGGGCGAGGAGGGGACCGTGGGGGCTTACAGAGGGGCGCG
 GGTGGTGGGGACAGAGCGGTTTTGGCCCTGGCAAGATGGACTCCAGGGGCGAGCACAGACAGGATCGCA
 GGGAGAGGCCATAT

ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCACTCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208306 representing NM_139149
 Red=Cloning site Green=Tags(s)

MASNDYTQQATQSYGAYPTQPGQGYSSQSSQPYGQQSSYSGYQSADTSGYGQSSYSSYQQTQNTGYGTQ
 SAPQGYGSTGGYSSQSSQSSYQSSYPGYQQPAPSSSTSGSYGSSQSSSYGQPQSGGYGQQSYGGQ
 QQSYGQQSSYNPPQGYQQNQYNSSSGGGGGGGNYGQDQSSMSGGGGGYGNQDQSGGGGGYGGG
 QQDRGGRGRGGGGYNRSSGGYEPGRGGRRGGRGMGSDRGGFNKFGGPRDQGSRHDSEQDSDNNTI
 FVQGLGENVTIESVADYFKQIGI IKTNKKTGQPMINLYTDRETGKLGKGEATVSFDDPPSAKAAIDWFDGK
 EFSGNPIKVSFATRRAFNRGGNGRGGRRGGMGRGGYGGGSGGGRRGFPSSGGGGGGQQRAGDWK
 CPNPTCENMNF SWRNECNQCKAPKPDGPGGGPGGSHMGGNYGDDRRRGGYDRGGYRGGDRGGFRGGR
 GGGDRGGFGPGKMDSRGEHRQDRRERPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9032_c07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_139149

ORF Size: 1554 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

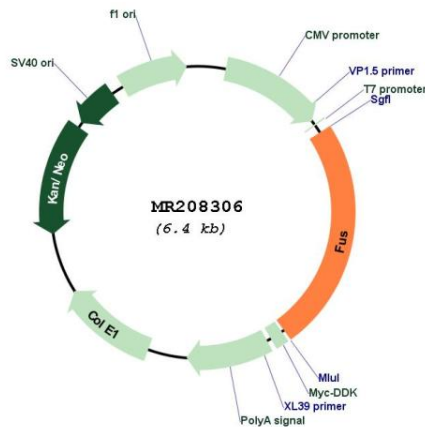
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_139149.2](#), [NP_631888.1](#)

RefSeq Size: 1845 bp
RefSeq ORF: 1557 bp
Locus ID: 233908
UniProt ID: [P56959](#)
Cytogenetics: 7 F3
MW: 53.1 kDa

Gene Summary: DNA/RNA-binding protein that plays a role in various cellular processes such as transcription regulation, RNA splicing, RNA transport, DNA repair and damage response. Binds to nascent pre-mRNAs and acts as a molecular mediator between RNA polymerase II and U1 small nuclear ribonucleoprotein thereby coupling transcription and splicing. Binds also its own pre-mRNA and autoregulates its expression; this autoregulation mechanism is mediated by non-sense-mediated decay. Plays a role in DNA repair mechanisms by promoting D-loop formation and homologous recombination during DNA double-strand break repair (By similarity). In neuronal cells, plays crucial roles in dendritic spine formation and stability, RNA transport, mRNA stability and synaptic homeostasis (PubMed:16317045, PubMed:25968143). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208306