

Product datasheet for **RC201808**

FUS (NM_004960) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUS (NM_004960) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FUS
Synonyms:	ALS6; altFUS; ETM4; FUS1; HNRNPP2; POMP75; TLS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201808 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTCAAACGATTATACCCAACAAGCAACCCAAGCTATGGGGCCTACCCCACCCAGCCCGGGCAGG
 GCTATTTCCAGCAGAGCAGTCAGCCCTACGGACAGCAGAGTTACAGTGGTTATAGCCAGTCCACGGACAC
 TTCAGGCTATGGCCAGAGCAGCTATTCTTCTTATGGCCAGAGCCAGAACACAGGCTATGGAACCTAGTCA
 ACTCCCCAGGGATATGGCTCGACTGGCGGCTATGGCAGTAGCCAGAGCTCCCAATCGTCTTACGGGCAGC
 AGTCTCTCTATCTGGCTATGGCCAGCAGCCAGCTCCCAGCAGCACCTCGGAAGTTACGGTAGCAGTTC
 TCAGAGCAGCAGCTATGGCCAGCCCCAGAGTGGGAGCTACAGCCAGCAGCCTAGCTATGGTGACAGCAG
 CAAAGCTATGGACAGCAGCAAAGCTATAATCCCCCTCAGGGCTATGGACAGCAGAACCAGTACAACAGCA
 GCAGTGGTGGTGGAGGTGGAGGTGGAGGTAACTATGGCCAAGATCAATCTCCATGAGTAGTGG
 TGGTGGCAGTGGTGGCGTTATGGCAATCAAGACCAGAGTGGTGGAGGTGGCAGCGGTGGCTATGGACAG
 CAGGACCGTGGAGGCCGCGGCAGGGGTGGCAGTGGTGGCGGCGCGGCGCGGCGGTGGTGGTTACAACC
 GCAGCAGTGGTGGCTATGAACCCAGAGGTCGTGGAGGTGGCCGTGGAGGCAGAGGTGGCATGGGCGGAAG
 TGACCGTGGTGGCTTCAATAAATTTGGTGGCCCTCGGGACCAAGGATCACGTCTAGACTCCGAACAGGAT
 AATTCAGACAACAACACCATCTTTGTGCAAGGCCTGGGTGAGAATGTTACAATTGAGTCTGTGGCTGATT
 ACTTCAAGCAGATTGGTATTATTAAGACAACAAGAAAACGGGACAGCCCATGATTAATTTGTACACAGA
 CAGGAAACTGGCAAGCTGAAGGGAGAGGCAACGGTCTCTTTTGTGACCCACCTCAGCTAAAGCAGCT
 ATTGACTGGTTTGGTAAAGAATCTCCGAAATCTATCAAGTCTCATTGCTACTCGCCGGGCAG
 ACTTTAATCGGGTGGTGGCAATGGTCTGGAGGCCGAGGGCGAGGAGGCCATGGGCGGTGGAGGCTA
 TGGAGGTGGTGGCAGTGGTGGTGGTGGCCGAGGAGGATTTCCAGTGGAGGTGGTGGCGGTGGAGGACAG
 CAGCGAGCTGGTACTGGAAGTGTCTAATCCACCTGTGAGAATATGAACCTCTCTTGGAGGAATGAAT
 GCAACCGTGTAAAGCCCTAAACCAGATGGCCAGGAGGGGACCAGGTGGCTCTCACATGGGGGTAA
 CTACGGGGATGATCGTCGTGGTGGCAGAGGAGGCTATGATCGAGGCGGCTACCGGGGCCGCGGGGGAC
 CGTGGAGGCTTCCGAGGGGGCCGGGTGGTGGGACAGAGGTGGCTTTGGCCCTGGCAAGATGGATTCCA
 GGGGTGAGCACAGACAGGATCGCAGGGAGAGGCCGTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201808 protein sequence
 Red=Cloning site Green=Tags(s)

MASNDYTQQATQSYGAYPTQPGQYSSQSSQPYGQQSYSGYSQSTDTSGYGQSSYSSYQSQNTGYGTQS
 TPQYGSTGGYGSQSSQSSYQSSYPYQQPAPSSTSGSYGSSQSSSYGQPQSGYSQQPSYGGQQ
 QSYGQQSYNPPQYGGQNNQYNSSSGGGGGGGGNYGQDQSSMSGGGSGGGYGNQDQSGGGGSGYGG
 QDRGGRGRGGSGGGGGGGGYNRSGGYEPRGRGGRRGGMGSDRGGFNKFGGPRDQGSRDHSEQD
 NSDNNTIFVQGLGENVTIESVADYFKQIGI IKTNKTGQPMINLYTDRETGLKGEATVSFDDPPSAKAA
 IDWFDGKEFSGNPIKVSFATRRADFNRRGGNRRGGRGPMGRGGYGGGSGGGRRGFFSGGGGGGGQ
 QRAGDWKCPNPTCENMNF SWRNECNQCKAPKPDGPGGGPGGSHMGNYGDDRRGGRRGGYDRGGYRGRGG
 RGGFRGRRGGDRGGFGPKMDSRGEHRQDRRERPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6150_d05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004960

ORF Size: 1578 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004960.4](#)

RefSeq Size: 5119 bp

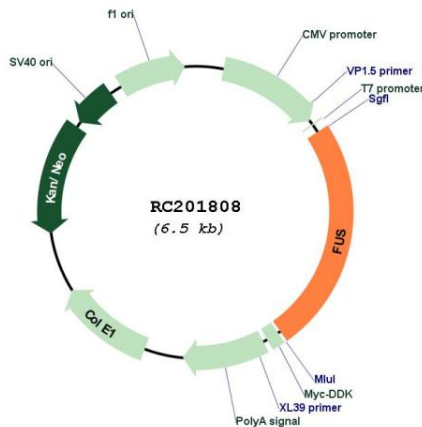
RefSeq ORF: 1581 bp

Locus ID: 2521

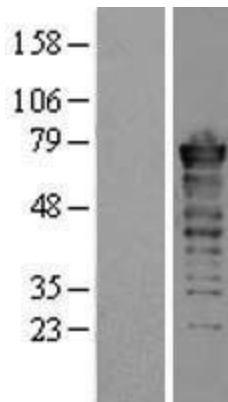
UniProt ID: [P35637](#)
Cytogenetics: 16p11.2
Domains: RRM, zf-RanBP
Protein Families: Druggable Genome, Stem cell - Pluripotency
MW: 53.4 kDa
Gene Summary:

This gene encodes a multifunctional protein component of the heterogeneous nuclear ribonucleoprotein (hnRNP) complex. The hnRNP complex is involved in pre-mRNA splicing and the export of fully processed mRNA to the cytoplasm. This protein belongs to the FET family of RNA-binding proteins which have been implicated in cellular processes that include regulation of gene expression, maintenance of genomic integrity and mRNA/microRNA processing. Alternative splicing results in multiple transcript variants. Defects in this gene result in amyotrophic lateral sclerosis type 6. [provided by RefSeq, Sep 2009]

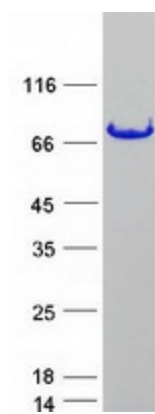
Product images:



Circular map for RC201808



Western blot validation of overexpression lysate (Cat# [LY401541]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201808 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FUS protein (Cat# [TP301808]). The protein was produced from HEK293T cells transfected with FUS cDNA clone (Cat# RC201808) using MegaTran 2.0 (Cat# [TT210002]).