

Product datasheet for **TP301808M**

FUS (NM_004960) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human fusion (involved in t(12;16) in malignant liposarcoma) (FUS), 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC201808 protein sequence
Red=Cloning site **Green**=Tags(s)

MASNDYTQQATQSYGAYPTQPGQGYSQQSSQPYGQQSYSGYSQSTDTSGYGQSSYSSYGQSQNTGYGTQS
TPQGYGSTGGYGSSQSSQSSYQSSYPGYGQQPAPSSSTSGSYGSSSSQSSSYGQPQSGSYSQQPSYGGQQ
QSYGQQQSYNPPQGYGQQNQYNSSSGGGGGGGGGNYGQDQSSMSSGGGSGGGYGNQDQSGGGGSGGGYGO
QDRGGRGRGGSGGGGGGGGGYNRSSGGYEPGRGRGGGRGGMGGSDRGGFNKFGGPRDQGSRHDSEQD
NSDNNTIFVQGLGENVTIESVADYFKQIGIIKTNKKTGQPMINLYTDRETGKLGKGEATVSFDDPPSAKAA
IDWFDGKEFSGNPIKVSFATRRADFNRGGGNGRGGRRGGPMGRGGYGGGGSGGGRRGGFPSGGGGGGGGQ
QRAGDWKCPNPTCENMNFWRNECNQCKAPKPDGPGGGPGGSHMGGNYGDDRRGGRRGGYDRGGYRGRGGD
RGGFRGGRRGGDRGGFGPGKMDSRGEHRQDRRERPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 53.2 kDa

Concentration: >0.1 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Bioactivity: Transmission electron microscopy (PMID: [26286827](#))
Co-immunoprecipitation (PMID: [27164932](#))
In vitro kinase assay inhibitor (PMID: [29513652](#))

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_004951](#)

Locus ID: 2521

UniProt ID: [P35637](#), [Q6IBQ5](#)

RefSeq Size: 5119

Cytogenetics: 16p11.2

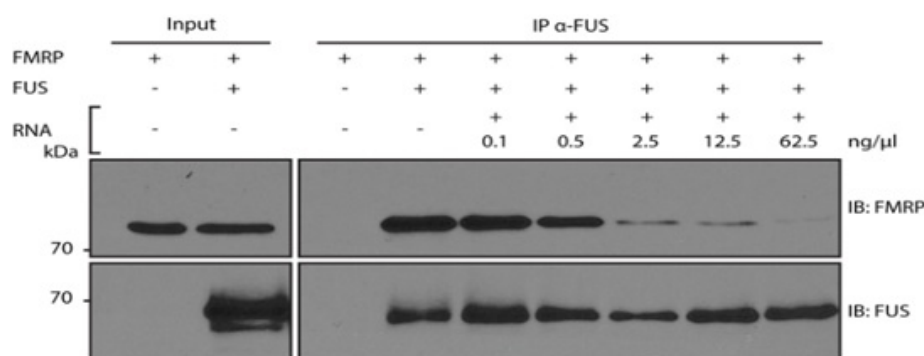
RefSeq ORF: 1578

Synonyms: ALS6; altFUS; ETM4; FUS1; HNRNPP2; POMP75; TLS

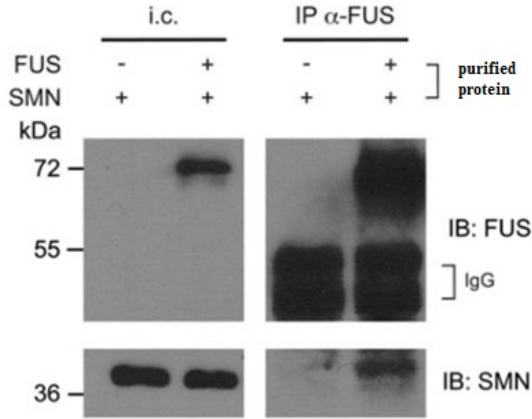
Summary: This gene encodes a multifunctional protein component of the heterogeneous nuclear ribonucleoprotein (hnRNP) complex. The hnRNP complex is involved in pre-mRNA splicing and the export of fully processed mRNA to the cytoplasm. This protein belongs to the FET family of RNA-binding proteins which 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]

Protein Families: Druggable Genome, Stem cell - Pluripotency

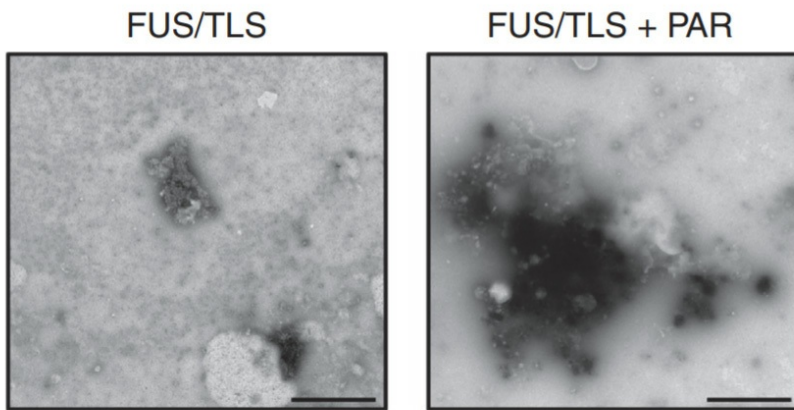
Product images:



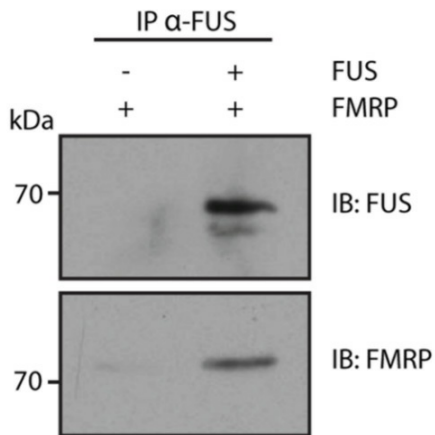
Recombinant FMRP and FUS proteins ([TP301808]) were mixed and RNA was added in increasing concentrations. Protein mixtures were incubated and immunoprecipitated with anti-FUS antibody and subjected to immunoblotting with the indicated antibodies. Figure cited from Acta Neuropathol 2016. PMID: 27164932



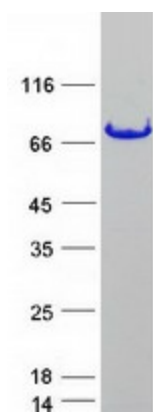
Purified FUS ([TP301808]) and SMN proteins ([TP321108]) were mixed and immunoprecipitated with IgG (control) or anti-FUS antibodies. Immunoprecipitates were analyzed with the indicated antibodies. Figure cited from Hum. Mol. Genet. 2013, PMID: 23681068



Full-length recombinant FUS/TLS (OriGene [TP301808]) was incubated at 37 C for 24 hours with or without sub-stoichiometric amounts of purified PAR. Protein aggregates were analyzed by transmission electron microscopy. Figure cited from Nat Commun, PMID: 26286827



Characterization of FMRP-FUS binding. Recombinant FUS (OriGene [TP301808]) and FMRP proteins were mixed and immunoprecipitated with anti-FUS antibodies. Samples were analyzed in Western blot with the indicated antibodies. Figure cited from Acta Neuropathol, PMID: 27164932



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]).