

Recombinant Mouse Fus Protein, Myc/DDK-tagged

Cat. No. Fus-3107M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length fused in sarcoma (Fus), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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. In neuronal cells, plays crucial roles in dendritic spine formation and stability, RNA transport, mRNA stability and synaptic homeostasis.
Molecular Mass	53.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Fus fused in sarcoma [Mus musculus (house mouse)]
Official Symbol	Fus
Synonyms	FUS; fusion, derived from t(12;16) malignant liposarcoma (human); RNA-binding protein FUS; hnRNP P2; pigpen protein; protein pigpen; translocated in liposarcoma; Tls; Fus1; D430004D17Rik; D930039C12Rik
Gene ID	233908
mRNA Refseq	NM_139149
Protein Refseq	NP_631888
UniProt ID	P56959

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