

Recombinant Human FUS, GST-tagged

Cat. No. FUS-13037H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FUS protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	52-400a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	FUS fused in sarcoma [Homo sapiens]
Official Symbol	FUS
Synonyms	FUS; fused in sarcoma; ALS6, amyotrophic lateral sclerosis 6 , fusion (involved in t(12;16) in malignant liposarcoma) , fusion, derived from t(12;16) malignant liposarcoma; RNA-binding protein FUS; FUS1; heterogeneous nuclear ribonucleoprotein P2; hnRNP P2; TLS; translocated in liposarcoma; oncogene FUS; oncogene TLS; fus-like protein; 75 kDa DNA-pairing protein; fusion gene in myxoid liposarcoma; translocated in liposarcoma protein; ALS6; POMP75; HNRNPP2;
Gene ID	2521
mRNA Refseq	NM_001170634
Protein Refseq	NP_001164105
MIM	137070
UniProt ID	P35637
Chromosome Location	16p11.2
Pathway	Gene Expression, organism-specific biosystem; Processing of Capped Intron-Containing Pre-mRNA, organism-specific biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem; mRNA Splicing, organism-specific biosystem; mRNA Splicing - Major Pathway, organism-specific biosystem; mRNA processing, organism-specific biosystem;

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Function

DNA binding; RNA binding; metal ion binding; nucleotide binding; protein binding; zinc ion binding;

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