

Recombinant Human FUS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FUS-5669H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FUS MS Standard C13 and N15-labeled recombinant protein (NP_004951) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	53.4 kDa
AA Sequence	MASNDYTQQATQSYGAYPTQPGQGYSQQSSQPYGQQSYSGYSQSTDTSGYGQS SYSSYGQSQNTGYGTQSTPQGYGSTGGYGSSQSSQSSYGQQSSYPGYGQQPAP SSTSGSYGSSSQSSSYGQPQSGSYSQQPSYGGQQQSYGQQQSYNPPQGYGQQN QYNSSSGGGGGGGGGGNYGQDQSSMSSGGGSGGGYGNDQSGGGGSGGYGQ QDRGGRGRGGSGGGGGGGGGGYNRSSGGYEPRGRGGGRGGRMGGSDRG

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GFNKFGGPRDQGSRHDSEQDNSDNNTIFVQGLGENVTIESVADYFKQIGIIKTNKKT
 GQPMINLYTDRETGKLKGEATVSFDDPPSAKAAIDWFDGKEFSGNPIKVSFATRRAD
 FNRGGGNGRGGRRGRGGPMGRGGYGGGGSGGGGRGGFPSSGGGGGGGQQRAG
 DWKCPNPTCENMNFSWRNECNQCKAPKPDGPGGGPGGSHMGGNYGDDRRGGR
 GGYDRGGYRGRGGDRGGFRGGRRGGGDRGGFGPGKMDSRGEHRQDRRERPYTR
 TRPLEQKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name FUS fused in sarcoma [Homo sapiens (human)]

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;

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Gene ID	2521
mRNA Refseq	NM_004960
Protein Refseq	NP_004951
MIM	137070
UniProt ID	P35637
SDS-PAGE	