

Product datasheet for **SC320263**

FUS (NM_004960) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUS (NM_004960) Human Untagged Clone
Tag:	Tag Free
Symbol:	FUS
Synonyms:	ALS6; altFUS; ETM4; FUS1; HNRNPP2; POMP75; TLS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004960.2
 CTCACGGCGTCCGGTGCTCAGCGGTGTTGGAACCTCGTTGCTTGCTGTGCGCGCGT
 GCGCGGACATGGCCTCAAACGATTATACCCAACAAGCAACCCAAAGCTATGGGGCCTACC
 CCACCCAGCCCGGCAGGGCTATCCCAGCAGAGCAGTCAGCCCTACGGACAGCAGAGTT
 ACAGTGGTTATAGCCAGTCCACGGACACTTCAGGCTATGGCCAGAGCAGCTATTCTTCTT
 ATGGCCAGAGCCAGAACAACAGGCTATGGAACCTCAGTCAACTCCCCAGGGATATGGCTCGA
 CTGGCGGCTATGGCAGTAGCCAGAGCTCCCAATCGTCTTACGGGCAGCAGTCCTCCTATC
 CTGGCTATGGCCAGCAGCCAGCTCCCAGCAGCACCTCGGGAAGTTACGGTAGCAGTTCTC
 AGAGCAGCAGCTATGGGAGCCCCAGAGTGGGAGCTACAGCCAGCAGCCTAGCTATGGTG
 GACAGCAGCAAAGCTATGGACAGCAGCAAAGCTATAATCCCCCTCAGGGCTATGGACAGC
 AGAACCAGTACAACAGCAGCAGTGGTGGTGGAGGTGGAGGTGGAGGTGGAGGTAACATG
 GCCAAGATCAATCCTCCATGAGTAGTGGTGGTGGCAGTGGTGGCGGTTATGGCAATCAAG
 ACCAGAGTGGTGGAGGTGGCAGCGGTGGCTATGGACAGCAGGACCGTGGAGGCCGCGGCA
 GGGGTGGCAGTGGTGGCGCGCGCGCGCGGCGGTGGTGGTTACAACCGCAGCAGTGGTG
 GCTATGAACCCAGAGTCTGGAGGTGGCCGTGGAGGCAGAGGTGGCATGGCGGAAGTG
 ACCGTGGTGGCTCAATAAATTTGGTGGCCCTCGGGACCAAGGATCACGTCATGACTCCG
 AACAGGATAAATTCAGACAACAACACCATCTTTGTGCAAGGCCCTGGGTGAGAATGTTACAA
 TTGAGTCTGTGGCTGATTACTTCAAGCAGATTGGTATTATTAAGACAAACAAGAAAACGG
 GACAGCCCATGATTAATTTGTACACAGACAGGAAACTGGCAAGCTGAAGGGAGAGGCAA
 CGGTCTCTTTTGATGACCCACCTTCAGCTAAAGCAGCTATTGACTGGTTTGATGGTAAAG
 AATTCCTCCGAAATCCTATCAAGGTCTCATTGCTACTCGCCGGGCAGACTTTAATCGGG
 GTGGTGGCAATGGTCGTGGAGGCCGAGGGCGAGGAGGACCCATGGGCCGTGGAGGCTATG
 GAGGTGGTGGCAGTGGTGGTGGTGGCCGAGGAGGATTTCCAGTGGAGGTGGTGGCGGTG
 GAGGACAGCAGCGAGCTGGTGACTGGAAGTGTCCTAATCCACCTGTGAGAATATGAACT
 TCTCTTGAGGAATGAATGCAACCAAGTGAAGGCCCTAAACAGATGGCCAGGAGGGG
 GACCAGGTGGCTCTCACATGGGGGGTAACTACGGGGATGATCGTCGTGGTGGCAGAGGAG
 GCTATGATCGAGGCGGCTACCGGGCCGCGCGGGGACCGTGGAGGCTTCCGAGGGGGCC
 GGGGTGGTGGGACAGAGGTGGCTTTGGCCCTGGCAAGATGGATTCCAGGGGTGAGCACA
 GACAGGATCGCAGGGAGAGGCCGTTAATTAAGCTGGCTCCCCAGGTTCTGGAACAGCT
 TTTTGTCTGTACCCAGTGTACCCTCGTTATTTTGTAACTTCCAATTCCTGATCACCC
 AAGGGTTTTTTGTGTCGACTATGTAATTGTAACCTATACCTCTGTTCCCATTAAGT
 GACCATTTTAGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_004960

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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.
RefSeq:	NM_004960.2 , NP_004951.1
RefSeq Size:	2012 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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>