

Product datasheet for **SC328870**

FUS (NM_001170634) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUS (NM_001170634) Human Untagged Clone
Tag:	Tag Free
Symbol:	FUS
Synonyms:	ALS6; altFUS; ETM4; FUS1; HNRNPP2; POMP75; TLS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:	<p>>NCBI ORF sequence for NM_001170634, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGCCTCAAACGATTATACCCAACAAGCAACCCAAAGCTATGGGGCCTACCCACCCAG CCCGGGCAGGGCTATCCCAGCAGAGCAGTCAGCCCTACGGACAGCAGAGTTACAGTGGT TATAGCCAGTCCACGGACACTTCAGGCTATGGCCAGAGCAGCTATTCTTCTTATGGCCAG AGCCAGAACAGCTATGGAACCTAGTCAACTCCCCAGGGATATGGCTCGACTGGCGGCTAT GGCAGTAGCCAGAGCTCCAATCGTCTTACGGGCAGCAGTCCTCCTACCCTGGCTATGGC CAGCAGCCAGCTCCAGCAGCACCTCGGGAAGTTACGGTAGCAGTTCTCAGAGCAGCAGC TATGGGCAGCCCCAGAGTGGGAGCTACAGCCAGCAGCCTAGCTATGGTGGACAGCAGCAA AGCTATGGACAGCAGCAAAGCTATAATCCCCTCAGGGCTATGGACAGCAGAACCAGTAC AACAGCAGCAGTGGTGGTGGAGGTGGAGGTGGAGGTAACTATGGCCAAGATCAA TCCTCCATGAGTAGTGGTGGTGGCAGTGGTGGCGGTTATGGCAATCAAGACCAGAGTGGT GGAGGTGGCAGCGGTGGCTATGGACAGCAGGACCGTGGAGGCCGCGGCAGGGGTGGCAGT GGTGGCGGCGGCGGCGGCGGCGGTGGTGGTTACAACCGCAGCAGTGGTGGCTATGAACCC AGAGGTCTGGAGGTGGCCGTGGAGGCAGAGGTGGCATGGGCGGAAGTGACCGTGGTGGC TTCAATAAATTTGGTGGCCCTCGGGACCAAGGATCACGTATGACTCCGAACAGGATAAT TCAGACAACAACACCATCTTTGTGCAAGGCCTGGGTGAGAATGTTACAATTGAGTCTGTG GCTGATTACTTCAAGCAGATTGGTATTATTAAGACAAACAAGAAAACGGGACAGCCCATG ATTAATTTGTACACAGACAGGAAACTGGCAAGCTGAAGGGAGAGGCAACCGTCTCTTTT GATGACCCACCTTCAGCTAAAGCAGCTATTGACTGGTTTGATGGTAAAGAATTCTCCGGA AATCCTATCAAGGTCTCATTGTACTCGCCGGGCAGACTTTAATCGGGTGGTGGCAAT GGTCGTGGAGGCCGAGGGCGAGGAGGACCATGGGCCGTGGAGGCTATGGAGTGGTGGC AGTGGTGGTGGTGGCCGAGGAGGATTTCCAGTGGAGGTGGTGGCGGTGGAGGACAGCAG CGAGCTGGTGACTGGAAGTGTCTAATCCACCTGTGAGAATATGAACTTCTCTGGAGG AATGAATGCAACCAAGTGTAAAGGCCCTAAACCAGATGGCCAGGAGGGGGACCAGGTGGC TCTCACATGGGGGTAACACTACGGGGATGATCGTCGTGGTGGCAGAGGAGGCTATGATCGA GGCGGCTACCGGGGCCGCGGCGGGGACCGTGGAGGCTTCCGAGGGGGCCGGGGTGGTGGG GACAGAGGTGGCTTTGGCCCTGGCAAGATGGATTCCAGGGGTGAGCACAGACAGGATCGC AGGGAGAGGCCGTATTA</pre>
Restriction Sites:	Please inquire
ACCN:	NM_001170634
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001170634.1</u> , <u>NP_001164105.1</u>
RefSeq Size:	5116 bp
RefSeq ORF:	1578 bp
Locus ID:	2521
UniProt ID:	<u>P35637</u>
Cytogenetics:	16p11.2
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 (3) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in a shorter isoform (2), compared to isoform 1.</p> <p>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>