

Product datasheet for **RG201808**

FUS (NM_004960) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUS (NM_004960) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FUS
Synonyms:	ALS6; altFUS; ETM4; FUS1; HNRNPP2; POMP75; TLS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201808 representing NM_004960
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTCAAACGATTATACCCAACAAGCAACCCAAGCTATGGGGCCTACCCCACCCAGCCCGGGCAGG
 GCTATTTCCAGCAGAGCAGTCAGCCCTACGGACAGCAGAGTTACAGTGGTTATAGCCAGTCCACGGACAC
 TTCAGGCTATGGCCAGAGCAGCTATTCTTCTTATGGCCAGAGCCAGAACACAGGCTATGGAACCTAGTCA
 ACTCCCCAGGGATATGGCTCGACTGGCGGCTATGGCAGTAGCCAGAGCTCCCAATCGTCTTACGGGCAGC
 AGTCCTCTATCTGGCTATGGCCAGCAGCCAGCTCCCAGCAGCACCTCGGGAAGTTACGGTAGCAGTTC
 TCAGAGCAGCAGCTATGGCCAGCCAGAGTGGGAGCTACAGCCAGCAGCCTAGCTATGGTGACAGCAG
 CAAAGCTATGGACAGCAGCAAAGCTATAATCCCCCTCAGGGCTATGGACAGCAGAACCAGTACAACAGCA
 GCAGTGGTGGTGGAGGTGGAGGTGGAGGTAACTATGGCCAAGATCAATCCTCCATGAGTAGTGG
 TGGTGGCAGTGGTGGCGTTATGGCAATCAAGACCAGAGTGGTGGAGGTGGCAGCGGTGGCTATGGACAG
 CAGGACCGTGGAGGCCGCGCAGGGGTGGCAGTGGTGGCGCGCGCGCGCGCGGTGGTGGTTACAACC
 GCAGCAGTGGTGGCTATGAACCCAGAGGTCTGGAGGTGGCCGTGGAGGCAGAGGTGGCATGGGCGGAAG
 TGACCGTGGTGGCTTCAATAAATTTGGTGGCCCTCGGGACCAAGGATCACGTCATGACTCCGAACAGGAT
 AATTCAGACAACAACACCATCTTTGTGCAAGGCCTGGGTGAGAATGTTACAATTGAGTCTGTGGCTGATT
 ACTTCAAGCAGATTGGTATTATTAAGACAACAAGAAAACGGGACAGCCCATGATTAATTTGTACACAGA
 CAGGAAACTGGCAAGCTGAAGGGAGAGGCAACGGTCTCTTTTGTGACCCACCTCAGCTAAAGCAGCT
 ATTGACTGGTTTGGTAAAGAATTCTCCGAAATCTATCAAGGTCTCATTGCTACTCGCCGGGCAG
 ACTTTAATCGGGTGGTGGCAATGGTCTGGAGGCCGAGGGCGAGGAGGCCATGGGCGTGGAGGCTA
 TGGAGGTGGTGGCAGTGGTGGTGGTGGCGAGGAGGATTCCAGTGGAGGTGGTGGCGGTGGAGGACAG
 CAGCGAGCTGGTACTGGAAGTGTCTAATCCACCTGTGAGAATATGAACCTCTTGGAGGAATGAAT
 GCAACCGTGTAAAGCCCTAAACCAGATGGCCAGGAGGGGACCAGGTGGCTCTCACATGGGGGTAA
 CTACGGGGATGATCGTCGTGGTGGCAGAGGAGGCTATGATCGAGGCGGCTACCGGGCCGCGCGGGGAC
 CGTGGAGGCTTCCGAGGGGGCCGGGTGGTGGGACAGAGGTGGCTTTGGCCCTGGCAAGATGGATTCCA
 GGGGTGAGCACAGACAGGATCGCAGGGAGAGGCCGTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201808 representing NM_004960
 Red=Cloning site Green=Tags(s)

MASNDYTQQATQSYGAYPTQPGQYSSQSSQPYGQQSYSGYSQSTDTSGYGQSSYSSYQSQNTGYGTQS
 TPQGYSTGGYSSQSSQSSYQSSYPGYGQQPAPSSTSGSYGSSQSSSYGQPQSGSYQQPSYGGQQ
 QSYGQQSYNPPQYGGQQNYNSSGGGGGGGGNYGQDQSSMSGGGSGGGYGNQDQSGGGSGGYGQ
 QDRGGRGRGGSGGGGGGGGYNRSSGGYEPRGRGGRRGGMGGSDRGGFNKFGGPRDQGSRHDSQD
 NSDNNTIFVQGLGENVTIESVADYFKQIGI IKTNKTGQPMINLYTDRETGKLGKGEATVSFDDPPSAKAA
 IDWFDGKEFSGNPIKVSFATRRADFNRGGNGRGRGRGPMRGGYGGGSGGGRRGFPSSGGGGGGQ
 QRAGDWCNPNTCENMNSWRNECNQCKAPKPDGPGGGPGGSHMGGNYGDDRRGGRGGYDRGGYRGRGGD
 RGGFRGGRGGDRGGFGPGKMSRGEHRQDRRERPY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004960

ORF Size: 1578 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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](#)

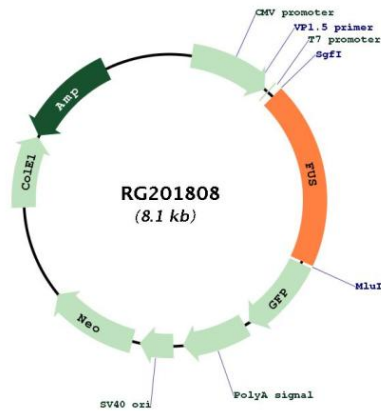
Cytogenetics: 16p11.2

Domains: RRM, zf-RanBP

Protein Families: Druggable Genome, Stem cell - Pluripotency

Gene Summary: 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]

Product images:



Circular map for RG201808