

## Product datasheet for **RC233650**

### FUS2 (NAT6) (NM\_001200016) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FUS2 (NAT6) (NM_001200016) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FUS2
Synonyms:	FUS-2; FUS2; HsNAAA80; NAT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233650 representing NM_001200016 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCTGATCCTGAGTACCAGCCCAGCTGAGCTGACTCTGGATCCTGCGTGCCAGCCAAAGCTGCCCC  
TGGATTCCACATGCCAACAGAGATGACCTTCAATCCTGGTCCAAGTACCTGAGCTTACCCTGGATCCTGAACA  
CCAGCCAGAGGAGACCCAGCTCCTAGCCTGGCTGAGTTGACCTGGAGCCTGTGCACCGCCGACCCGAG  
CTCCTGGATGCTTGTGCTGACCTCATCAATGATCAGTGGCCCCGAGCCGCACCTCCCGCTGCACTCCC  
TGGGCCAGTCCAGATGCCTTCCCCCTCTGCCTGATGCTGCTAAGCCCCACCCACACTTGAAGCAGC  
ACCCGTTGTGGTGGGCCATGCCCGCCTGTACGGGTGCTGAACCAGCCCCAGAGCCTCTTAGTGGAGACA  
GTGGTGGTGGCCCGGCCCTGAGGGGCCGTGGCTTTGGCCGCGCCTCATGGAGGGCCTGGAGGTCTTTG  
CTCGGGCCCGGGCTTCCGCAAGCTGCATCTCACCACCCATGACCAGGTGCACTTCTATACCCACCTGGG  
CTACCAGCTGGGTGAGCCTGTGCAGGGCCTGGTCTTACCAGCAGACGGCTGCCTGCCACCTGCTTAAT  
GCCTTCCCACAGCCCCCTCTCCCGGCCACCCAGGAAGGCCCAAACTGACTGCCAAGCTGCCCCAA  
GGGTCCCAAGGGACCTCCATTGCCACCACCCCTCCCTACCTGAGTGCCTGACCATCTACCCCCAGT  
TCCATCAGGGCCCCCTTCAAAAAGCCTGCTGGAGACACAATATCAAAATGTGAGGGGGCGCCCCATATTC  
TGGATGGAAAAAGACATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233650 representing NM\_001200016  
Red=Cloning site Green=Tags(s)

MELILSTSPAELTLDPACQPKLPLDSTCQPEMTFNPGPTELTLDPHQPEETPAPSLAELTLEPVHRRPE  
 LLDACADLINDQWPRSRTSRLHSLGQSSDAFPLCLMLLSPHPTLEAAPVVVGHARLSRVLNQPSLLVET  
 VVVARALRGRGFRRLEMEGLEVFARARGFRKLHLTTHDQVHFYTHLGYQLGEPVQGLVFTSRRLPATLLN  
 AFPTAPSPRPPRKAPNLTAQAAPRGPKGPPLPPPPPLECLTISPPVPSGPPSKSLELTQYQNVGRPIF  
 WMEKDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001200016

**ORF Size:** 858 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\\_001200016.2](#)

**RefSeq Size:** 1497 bp

**RefSeq ORF:** 861 bp

**Locus ID:** 24142

**UniProt ID:** [Q93015](#)

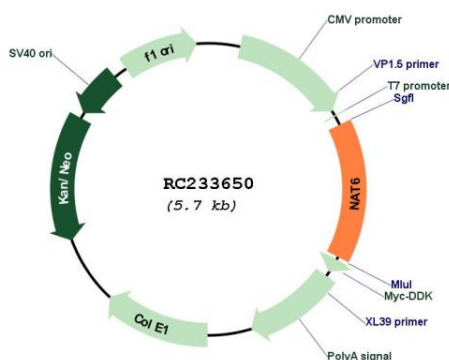
**Cytogenetics:** 3p21.31

**Protein Pathways:** Glycerophospholipid metabolism, Limonene and pinene degradation, Phenylalanine metabolism, Tyrosine metabolism

**MW:** 31.9 kDa

**Gene Summary:** This gene encodes a member of the N-acetyltransferase family. N-acetyltransferases modify proteins by transferring acetyl groups from acetyl CoA to the N-termini of protein substrates. The encoded protein is a cytoplasmic N-acetyltransferase with a substrate specificity for proteins with an N-terminal methionine. This gene is located in the tumor suppressor gene region on chromosome 3p21.3 and the encoded protein may play a role in cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed. This gene overlaps and is on the same strand as hyaluronoglucosaminidase 3, and some transcripts of each gene share a portion of the first exon. [provided by RefSeq, Jan 2011]

## Product images:



Circular map for RC233650