

## Product datasheet for **RC226735**

### **FES (NM\_001143783) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FES (NM_001143783) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FES
Synonyms:	FPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC226735 representing NM\_001143783  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGCTTCTCTCCGAGCTGTGCAGCCCCAGGGCCACGGGGTCTGCAGCAAATGCAGGAGGCCGAGC  
TTCGTCTACTGGAGGCCATGAGAAAGTGGATGGCCACGGGTCAAGAGTGACAGGGAGTATGCAGGACT  
GCTTACCACATGTCCCTGCAGGACAGTGGGGCCAGAGCCGGGCATCAGCCCTGACAGCCCCATCAGT  
CAGACCCACAGCCAGGACATTGAGAAGCTGAAGAGCCAGTACCGAGCTCTGGCACGGGACAGTGCCCAAG  
CCAAGCGCAAGTACCAGGAGGCCAGAAAGACAAGGACCGTGACAAGGCTAAGGACAAGTATGTGCGCAG  
CCTGTGGAAGCTCTTTGCTCACCACAACCCTATGTGCTGGGCGTGCGGGCTGCGCAGCTACACCACCAG  
CACCACCACAGCTCCTGCTGCCCGCCTGCTGCGGTACTGCAGGACCTGCACGAGGAGATGGCTTGCA  
TCCTGAAGGAGATCCTGCAGGAATACCTGGAGATTAGCAGCTGGTGCAGGATGAGTGGTGCCATTCA  
CCGGGAGATGGCTGCAGCTGCTGCCCGCATCCAGCCTGAGGCTGAGTACCAAGGCTTCTGCGACAGTAT  
GGTCCGCACCTGACGTCCACCCCTGTGTACGTTTCGATGAGTACTGCTTGAGGAGGGTGAACCGCTGG  
AGCCTGGGGAGCTCCAGCTGAACGAGCTGACTGTGGAGAGCGTGCAGCACACGCTGACCTCAGTGACAGA  
TGAGCTGGCTGTGGCCACCGAGATGGTGTTCAGGCGCAGGAGATGGTTACGCAGCTGCAACAGGAGCTC  
CGGAATGAAGAGGAGAACACCCACCCCGGGAGCGGGTGCAGCTGCTGGGCAAGAGGCAAGTGTGCAAG  
AAGCACTGCAGGGGCTGCAGGTAGCGTGTGCAGCCAGGCCAAGTGCAGGCCACGAGGAGTTGCTGCA  
GACCAAGCTGGAGACCTGGGCCCGGGCAGCCCCCGCTGTGCTGCTCCTGCAGGATGACCGCCACTCC  
ACGTCGTCTCGGAGCAGGAGCAGAGGGGGGAAGGACACCCACGCTGGAGATCCTTAAGAGCCACATCT  
CAGGAATCTTCCGCCCAAGTTCTCGTCCCTCCACCGCTGCAGCTCATTCCGGAGGTGCAGAAGCCCT  
GCATGAGCAGCTGTGGTACCACGGGGCCATCCCGAGGGCAGAGGTGGCTGAGCTGCTGGTCACTCTGGG  
GACTTCTGCTGCGGGAGAGCCAGGGCAAGCAGGAGTACGTGCTGTGCGTGTGGGATGGTCTGCCCC  
GGCACTTCATCATCCAGTCTTGGATAACCTGTACCGACTGGAAGGGGAAGGCTTTCCTAGCATTCTTT  
GCTCATCGACCCTACTGAGCACCCAGCAGCCCTCACCAAGAAGAGTGGTGTGCTCCTGCACAGGGCT  
GTGCCAAGGACAAGTGGGTGCTGAACCATGAGGACCTGGTGTGGGTGAGCAGATTGGACGGGGAACT  
TTGGCGAAGTGTTCAGCGGACGCTGCGAGCCGACAACACCTGGTGGCGGTGAAGTCTTGTGAGAGAC  
GCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGCGAGGATCCTGAAGCAGTACAGCCACCCCAAC  
ATCGTGCCTCATTGGTGTCTGCACCCAGAAGCAGCCATCTACATCGTCATGGAGCTTGTGCAGGGG  
GCGACTTCTGACCTTCTCCGCACGGAGGGGGCCCGCTGCGGGTGAAGACTCTGCTGCAGATGGTGGG  
GGATGCAGCTGCTGGCATGGAGTACCTGGAGAGCAAGTGTGTCATCCACCGGACCTGGCTGCTCGGAAC  
TGCTTGGTGCAGAGAAGAATGTCTGAAGATCAGTACTTTGGGATGTCCCGAGAGGAAGCCGATGGGG  
TCTATGCAGCCTCAGGGGGCCTCAGACAAGTCCCGTGAAGTGGACCGCACCTGAGGCCCTTAACACTCGG  
CCGCTACTCCTCCGAAAGCGACGTGTGGAGCTTGGCATCTTGTCTGCGGAGACCTCAGCCTGGGGGCC  
TCCCCATCCCAACCTCAGCAATCAGCAGACACGGGAGTTTGTGGAGAAGGGGGCCGCTGCCCCTGCC  
CAGAGCTGTGCTGATGCCGTGTTGAGGCTCATGGAGCAGTGTGGCCATGAGCCTGGGCAGCGGCC  
CAGCTTACGACCATCTACCAGGAGCTGCAGAGCATCCGAAAGCGGCATCGG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226735 representing NM\_001143783  
Red=Cloning site Green=Tags(s)

MGFSSEL CSPQGHV LQQMQE AELRLLEGMRK WMAQRVKSDREYAGLLHHMSLQDSGGQSRAISPDSPIS  
 QTHSQDIEKLKSQYRALARDSAQAKRKYQEASKDKDRDKAKDKYVRS LKLF AHHNRYVLGVRAAQLHHQ  
 HHHQLLLPGLLRSLQDLHEEMACILKEILQEYLEISSLVQDEVVAIHREMAAAAAARIQPEAEYQGF LRQY  
 GSAPDVPPCVTFDESLL EEEGEPLEPGELQLNELTVESVQHTLTSVTDELAVATEMVFRRQEMVTQLQQEL  
 RNEEENTHPRERVQLLGKRQVLQEALQGLQVALCSQAKLQAQQELLQTKLEHLGPGEPVLLLQDDRHS  
 TSSSEQEREGRTP TLEILKSHISGIFRPKFS LPPPLQLIPEVQKPLHEQLWYHGAI PRAEVAELLVHSG  
 DFLVRESQ GKQEYVLSVLWDGLPRHFIIQSLDNLYRLEGE GFPSIPLLDHLLSTQQPLTKKSGVVLHRA  
 VPKDKWVLNHEDLVLGEQIGRGNFGEVSGRLRADNTLVAVKSCRETLPDLKAKFLQEARILKQYSHPN  
 IVRLIGVCTQKQPIYIVMELVQGGDFL TFLRTEGARLRVKTL LQMGVDAAGMEYLESKCCIHRLAARN  
 CLVTEKNVLKISDFGMSREEADGVYAASGGLRQVPVKWTAPEALNYGRYSSESDVWSFGILLWETFSLGA  
 SPYPNLSNQQTRE FVEKGGRLPCPELCPDAVFR LMEQCWAYEPGQRPSFSTIYQELQSIRKRHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8006\\_f09.zip](https://cdn.origene.com/chromatograms/mk8006_f09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001143783

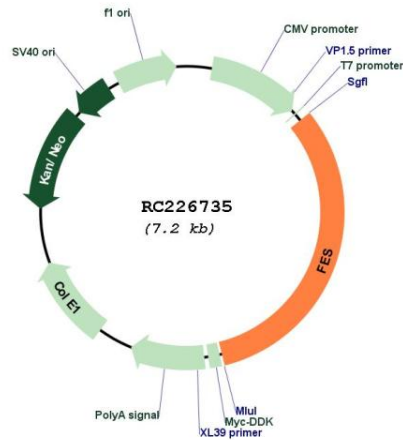
**ORF Size:** 2292 bp

**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](#)

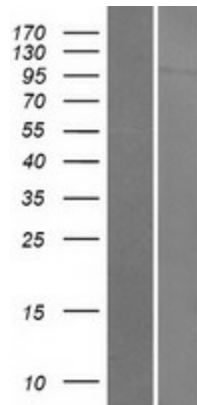
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001143783.1, NP_001137255.1</u>
<b>RefSeq ORF:</b>	2295 bp
<b>Locus ID:</b>	2242
<b>UniProt ID:</b>	<u>P07332</u>
<b>Cytogenetics:</b>	15q26.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Axon guidance
<b>MW:</b>	86.5 kDa
<b>Gene Summary:</b>	This gene encodes the human cellular counterpart of a feline sarcoma retrovirus protein with transforming capabilities. The gene product has tyrosine-specific protein kinase activity and that activity is required for maintenance of cellular transformation. Its chromosomal location has linked it to a specific translocation event identified in patients with acute promyelocytic leukemia but it is also involved in normal hematopoiesis as well as growth factor and cytokine receptor signaling. Alternative splicing results in multiple variants encoding different isoforms.[provided by RefSeq, Jan 2009]

Product images:



Circular map for RC226735



Western blot validation of overexpression lysate (Cat# [LY428344]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226735 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).