

Product datasheet for **RG226735**

FES (NM_001143783) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FES (NM_001143783) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FES
Synonyms:	FPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG226735 representing NM_001143783
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCTTCTCTCCGAGCTGTGCAGCCCCAGGGCCACGGGGTCTGCAGCAAATGCAGGAGGCCGAGC
TTCGTCTACTGGAGGCCATGAGAAAGTGGATGGCCACGGGTCAAGAGTGACAGGGAGTATGCAGGACT
GCTTACCACATGTCCCTGCAGGACAGTGGGGCCAGAGCCGGCCATCAGCCCTGACAGCCCCATCAGT
CAGACCCACAGCCAGGACATTGAGAAGCTGAAGAGCCAGTACCGAGCTCTGGCACGGGACAGTGCCCAAG
CCAAGCGCAAGTACCAGGAGGCCAGAAAGACAAGGACCGTGACAAGGCTAAGGACAAGTATGTGCGCAG
CCTGTGGAAGCTCTTTGCTCACCACAACCGCTATGTGCTGGGCGTGCGGGCTGCGCAGCTACACCACCAG
CACCACCACAGCTCCTGCTGCCCGCCTGCTGCGGTACTGCAGGACCTGCACGAGGAGATGGCTTGCA
TCCTGAAGGAGATCCTGCAGGAATACCTGGAGATTAGCAGCTGGTGCAGGATGAGTGGTGCCATTCA
CCGGGAGATGGCTGCAGCTGCTGCCCGCATCCAGCCTGAGGCTGAGTACCAAGGCTTCTGCGACAGTAT
GGTCCGCACCTGACGTCCCACCCTGTGTACGTTTCGATGAGTACTGCTTGAGGAGGGTGAACCGCTGG
AGCCTGGGGAGCTCCAGCTGAACGAGCTGACTGTGGAGAGCGTGCAGCACACGCTGACCTCAGTGACAGA
TGAGCTGGCTGTGGCCACCGAGATGGTGTTCAGGCGCAGGAGATGGTTACGCAGCTGCAACAGGAGCTC
CGGAATGAAGAGGAGAACACCCACCCCGGGAGCGGGTGCAGCTGCTGGGCAAGAGGCAAGTGTGCAAG
AAGCACTGCAGGGGCTGCAGGTAGCGTGTGCAGCCAGGCCAAGTGCAGGCCACGAGGAGTTGCTGCA
GACCAAGCTGGAGACCTGGGCCCGGGCAGCCCCCGCTGTGCTGCTCCTGCAGGATGACCGCCACTCC
ACGTCGTCTCGGAGCAGGAGCAGAGGGGGGAAGGACACCCACGCTGGAGATCCTTAAGAGCCACATCT
CAGGAATCTTCCGCCCAAGTTCTCGCTCCCTCCACCGCTGCAGCTCATTCCGGAGGTGCAGAAGCCCT
GCATGAGCAGCTGTGGTACCACGGGGCCATCCCGAGGGCAGAGGTGGCTGAGCTGCTGGTCACTCTGGG
GACTTCTGTTGCGGGAGAGCCAGGGCAAGCAGGAGTACGTGCTGTGCGTGTGGGATGGTCTGCCCC
GGCACTTCATCATCCAGTCTTGGATAACCTGTACCGACTGGAAGGGGAAGGCTTTCCTAGCATTCTTT
GCTCATCGACCCTACTGAGCACCCAGCAGCCCTCACCAAGAAGTGGTGTGCTGCTGCACAGGGCT
GTGCCAAGGACAAGTGGGTGCTGAACCATGAGGACCTGGTGTGGGTGAGCAGATTGGACGGGGAACT
TTGGCGAAGTGTTCAGCGGACGCTGCGAGCCGACAACACCTGGTGGCGGTGAAGTCTTGTGAGAGAC
GCTCCACCTGACCTCAAGGCCAAGTTTCTACAGGAAGCGAGGATCCTGAAGCAGTACAGCCACCCCAAC
ATCGTGCCTCTATTGGTGTCTGCACCCAGAAGCAGCCATCTACATCGTCATGGAGCTTGTGCAGGGG
GCGACTTCTGACCTTCTCCGCACGGAGGGGGCCCGCTGCGGGTGAAGACTCTGCTGCAGATGGTGGG
GGATGCAGCTGCTGGCATGGAGTACCTGGAGAGCAAGTGTGTCATCCACCGGACCTGGCTGCTCGGAAC
TGCTTGGTGCAGAGAAGAATGTCTGAAGATCAGTACTTTGGGATGTCCCAGAGGAAGCCGATGGGG
TCTATGCAGCCTCAGGGGGCCTCAGACAAGTCCCGTGAAGTGGACCGCACCTGAGGCCCTTAACACGG
CCGCTACTCCTCCGAAAGCGACGTGTGGAGCTTGGCATCTTGTCTGGGAGACCTCAGCCTGGGGGCC
TCCCCCTATCCCAACCTCAGCAATCAGCAGACACGGGAGTTTGTGGAGAAGGGGGCCGCTGCCCCTGCC
CAGAGCTGTGCTGATGCCGTGTTGAGGCTCATGGAGCAGTGTGGCCATGAGCCTGGGCAGCGGCC
CAGCTTACGACCATCTACCAGGAGCTGCAGAGCATCCGAAAGCGGCATCGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG226735 representing NM_001143783
 Red=Cloning site Green=Tags(s)

MGFSSEL CSPQGHV LQQMQE AELRLLEGMRK WMAQRV KSDREYAG LLLHMSLQDSGGQSR AISPDSPIS
 QTHSQDIEKLK SQYRALAR DSAQAKRKYQEASKDKDRDKAKDKYV RSLWKLFAH HNRYVLGVRAAQLHHQ
 HHHQLLLPGLLRSLQDLHEEMACILKEILQEYLEISSLVQDEVVAI HREMAAAAARIQPEAEYQGFLRQY
 GSAPDVPPCVTFDESLL EEEGEPLEPGELQLNELTVESVQH TLTSVTDELAVATEMVFRRQEMVTQLQQEL
 RNEEENTHPRERVQLLGKRQVLQEALQGLQVALCSQAKLQAQQELLQTKLEHLGPGEPPPVL LLQDDRHS
 TSSSEQERE GGRTP TLEILKSHISGIFRPKFS LPPPLQLIPEVQKPLHEQLWYHGAI PRAEVAELLVHSG
 DFLVRESQGKQEYVLSVLWDGLPRHFIIQSLDNLYRLEGE GFPSIPLLIDHLLSTQQPLTKKSGVVLHRA
 VPKDKWLVNHEDLVLGEQIGRGNFGEVFSGR LRADNTLVAVKSCRETLPPDLKAKFLQEARILKQYSHPN
 IVRLIGVCTQKQPIYIVMELVQGGDFL TFLRTEGARLRVK TLLQMVGDAAAGMEYLESKCCIH RDLAARN
 CLVTEKNVLKISDFGMSREEADGVY AASGGLRQVPVKWTAPEALNYGRYSSES DVVWSFGILLWETFSLGA
 SPYPNLSNQQTRE FVEKGGRLPCPELCPDAVFR LMEQCWAYEPGQRPSFSTIYQELQSIRKRHR

TRTRPLE - GFP Tag - V

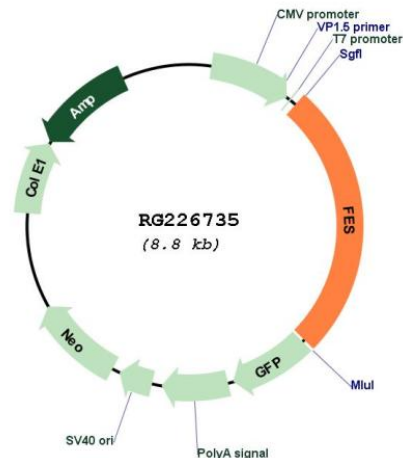
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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.

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_001143783.1](#), [NP_001137255.1](#)

RefSeq Size: 2513 bp

RefSeq ORF: 2295 bp

Locus ID: 2242

UniProt ID: [P07332](#)

Cytogenetics: 15q26.1

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Axon guidance

Gene Summary: 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]