

Product datasheet for **RG226923**

FES (NM_001143785) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FES (NM_001143785) 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:

>RG226923 representing NM_001143785
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCTTCTCTCCGAGCTGTGCAGCCCCAGGGCCACGGGGTCTGCAGCAAATGCAGGAGGCCGAGC
TTCGTCTACTGGAGGGCATGAGAAAGTGGATGGCCACGGGTCAAGAGTGACAGGGAGTATGCAGGACT
GCTTACCACATGTCCCTGCAGGACAGTGGGGCCAGAGCCGGGCATCAGCCCTGACAGCCCCATCAGT
CAGACCCACAGCCAGGACATTGAGAAGCTGAAGAGCCAGTACCGAGCTCTGGCACGGGACAGTGCCCAAG
CCAAGCGCAAGTACCAGGAGGCCAGAAAGACAAGGACCGTGACAAGGCTAAGGACAAGTATGTGCGCAG
CCTGTGGAAGCTCTTTGCTCACCACAACCGCTATGTGCTGGCGTGCAGGCTGCGCAGCTACACCACCAG
CACCACCACAGCTCCTGCTGCCCGCCTGCTGCGGTACTGCAGGACCTGCACGAGGAGATGGCTTGCA
TCCTGAAGGAGATCCTGCAGGAATACCTGGAGATTAGCAGCCTGGTGCAGGATGAGGTGGTGGCCATTCA
CCGGGAGATGGCTGCAGTGTGCCCGCATCCAGCCTGAGGCTGAGTACCAAGGCTTCTGCGACAGTAT
GGGTCCGCACCTGACGTCCCACCCTGTGTACGTTTCGATGAGTCACTGCTTGAGGAGGGTGAACCGCTGG
AGCCTGGGGAGCTCCAGCTGAACGAGCTGACTGTGGAGAGCGTGCAGCACACGCTGACCTCAGTGACAGA
TGAGCTGGCTGTGGCCACCGAGATGGTGTTCAGGCGCAGGAGATGGTTACGCAGCTGCAACAGGAGCTC
CGGAATGAAGAGGAGAACACCCACCCCGGGAGCGGGTGCAGTGTGGCAAGAGGCAAGTGTGCAAG
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GACCAAGCTGGAGACCTGGGCCCGGGCAGCCCCCGCTGTGCTGCTCCTGCAGGATGACCGCCACTCC
ACGTCGTCTCGGAGCAGGAGCGAGAGGGGGGAAGGACACCCACGCTGGAGATCCTTAAGAGCCACATCT
CAGGAATCTCCGCCCAAGTTCTCGAACCTGTACCGACTGGAAGGGGAAGGCTTCTCAGCATTCCCTTT
GCTCATCGACCACCTACTGAGCACCCAGCAGCCCTCACCAAGAAGAGTGGTGTGCTCCTGCACAGGGCT
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GGATGCAGCTGCTGGCATGGAGTACCTGGAGAGCAAGTGTGCATCCACCGGACCTGGCTGCTCGGAAC
TGCTTGGTGCAGAGAAGTGTCTGAAGATCAGTGACTTTGGGATGTCCCGAGAGGAAGCCGATGGGG
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CCGCTACTCCTCCGAAAGCGACGTGTGGAGCTTTGGCATCTTGCTCTGGGAGACCTTCAGCCTGGGGCC
TCCCCCTATCCAACTCAGCAATCAGCAGACCGGGAGTTTGTGGAGAAGGGGGCCGCTGCCCCTGCC
CAGAGCTGTGCTGATGCCGTGTTAGGCTCATGGAGCAGTGTGGCCTATGAGCCTGGGCAGCGGCC
CAGTTACAGCCATCTACCAGGAGCTGCAGAGCATCCGAAAGCGGCATCGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

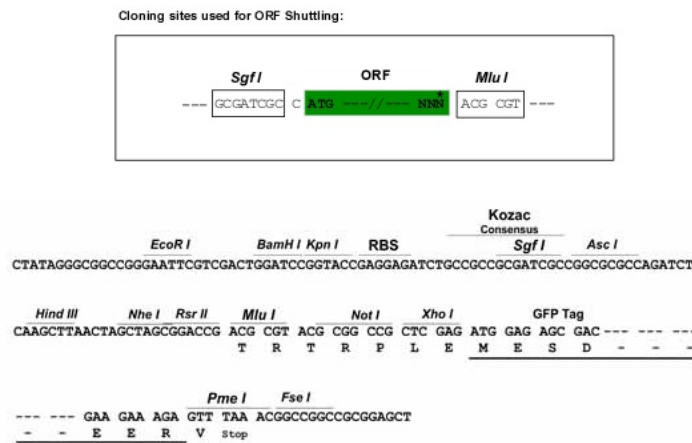
Protein Sequence: >RG226923 representing NM_001143785
 Red=Cloning site Green=Tags(s)

MGFSSEL CSPQGHV LQQMQE AELRLLEGMRK WMAQRVKSDREYAGLLHHMSLQDSGGQSRAISPDPSPIS
 QTHSQDIEKLK SQYRALARDSAQAKRKYQEASKDKDRDKAKDKYVRS LKLF AHNRYVLGVRAAQLHHQ
 HHHQLLLPGLLRSLQDLHEEMACILKEILQEYLEISSLVQDEVVAIHREMAAAAAARIQPEAEYQGFLRQY
 GSAPDVPPCVTFDESLL EEEGPELPGELQLNELTVESVQHTLTSVTD ELAVATEMVFRRQEMVTQLQQEL
 RNEEENTHPRERVQLLGKRQVLQEALQGLQVALCSQAKLQAQPELLQTKLEHLGPPEPPVLLLQDDRHS
 TSSSEQERE GGRTP TLEILKSHISGIFRPKFSNLYRLEGE GPFSPILLIDHLLSTQQPLTKKSGVVLHRA
 VPDKWV LNHEDLVLGEQ IGRNFG EVFSGRLRADNTLVAVKSCRETLP PDLKAKFLQEARKLQYSHPN
 I VRLIGVCTQKQPIYIVMELVQGGDFL TFLRTEGARLRVK TLLQMVGDAAAGMEYLESKCCIHRLAARN
 CLVTEKNVLKISDFGMSREEADGVYAASGGLRQVPVKWTAPEALNYGRYSSES DVVWVSGILLWETFSLGA
 SPYPNLSNQQTRE FVEKGGRLPCPELCPDAVFR LMEQCWAYEPGQRPSFSTIYQELQSIRKRHR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001143785

ORF Size: 2082 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_001143785.2](#)

RefSeq Size: 2422 bp

RefSeq ORF: 2085 bp

Locus ID: 2242

UniProt ID: [P07332](#)

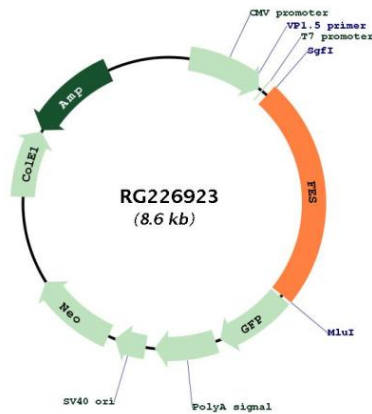
Cytogenetics: 15q26.1

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]

Product images:



Circular map for RG226923