

Product datasheet for **RG226809**

FES (NM_001143784) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FES (NM_001143784) 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)



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ORF Nucleotide
Sequence:

>RG226809 representing NM_001143784
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGCTTCTCTCCGAGCTGTGCAGCCCCAGGGCCACGGGGTCTGCAGCAAATGCAGGAGGCCGAGC
TTCGTCTACTGGAGGGCATGAGAAAGTGGATGGCCACGCGGTCAAGAGTGACAGGGAGTATGCAGGACT
GCTTACCACATGTCCCTGCAGGACAGTGGGGCCAGAGCCGGGCATCAGCCCTGACAGCCCCATCAGT
CAGTCCTGGGCTGAGATCACCAGCCAACTGAGGGCTGAGCCGCTTGCTGCGGCAGCACGCAGAGGATC
TGAAGTCAAGGGCCCTGAGCAAGCTGAGCCTGCTCATCCGGAAACGGCAGCAGCTTCGAAAGACCTACAG
CGAGCAGTGGCAGCAGCTGCAGCAGGAGCTCACCAAGACCCACAGCCAGGACATTGAGAAGCTGAAGAGC
CAGTACCGAGCTCTGGCACGGGACAGTGCCAAGCCAAGCGCAAGTACCAGGAGGCCAGCAAGACAAGG
ACCGTGACAAGGTAAGGACAAGTATGTGCGCAGCCTGTGGAAGCTCTTTGCTCACCACAACCGCTATGT
GCTGGGCTGCGGGCTGCGCAGCTACACCACCAGCACCACCAGCTCCTGCTGCCCGGCTGCTGCGG
TCACTGCAGGACCTGCAGGAGGATGGCTTGATCCTGAAGGAGATCCTGCAGGAATACCTGGAGATTA
GCAGCCTGGTGCAGGATGAGGTGGTGGCCATTCACCGGAGATGGCTGCAGCTGTGCCCGCATCCAGCC
TGAGGCTGAGTACCAAGGCTTCTGCGACAGTATGGGTCCGCACCTGACGTCCCACCCTGTGTACAGTTC
GATGAGTCACTGCTTGAGGAGGGTGAACCGCTGGAGCCTGGGAGCTCCAGCTGAACGAGCTGACTGTGG
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AGGCCAAGCTGCAGGCCAGCAGGAGTTGCTGCAGACCAAGCTGGAGCACCTGGGCCCGCGGAGCCCCC
GCCTGTGCTGCTCCTGCAGGATGACCGCCACTCCACGTGCTCCTCGGAGCAGGAGCGAGAGGGGGAAAGG
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ACACCCTGGTGGCGGTGAAGTCTTGTGAGAGACGCTCCACCTGACCTCAAGGCCAAGTTCTACAGGA
AGCGAGGATCCTGAAGCAGTACAGCCACCCCAACATCGTGCCTCATTGGTGTCTGACCCAGAAGCAG
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GCCTGCGGGTGAAGACTCTGCTGCAGATGGTGGGGATGCAGCTGCTGGCATGGAGTACCTGGAGAGCAA
GTGCTGCATCCACCGGACCTGGCTGCTCGAACTGCCTGGTGACAGAGAAGAATGTCCTGAAGATCAGT
GACTTTGGGATGTCCCGAGAGGAAGCCGATGGGGTCTATGCAGCCTCAGGGGGCCTCAGACAAGTCCCCG
TGAAGTGGACCGACCTGAGGCCCTTAACACGGCCGCTACTCCTCCGAAAGCGACGTGTGGAGCTTTGG
CATCTTGTCTGGGAGACCTTACGCTGGGGGCCCTCCCCATCCCAACCTCAGCAATCAGCAGACACGG
GAGTTTGTGGAGAAGGGGGCCGCTGCCCTGCCAGAGCTGTGCTCCTGATGCCGTGTTCAAGCTCATGG
AGCAGTGTGGCCATGAGCCTGGGCAGCGGCCAGCTTACGACCATCTACCAGGAGCTGCAGAGCAT
CCGAAAGCGGCATCGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG226809 representing NM_001143784
Red=Cloning site Green=Tags(s)

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MGFSSEL CSPQGHV LQQMQE AELRLLEGMRK WMAQRVKSDREYAGLLHHMSLQDSGGQSR AISPDSPIS
QSWAEITSQTEGLS RLLRQHAEDLNSGPLSKLSLLIRERQQLRKYSEQWQQLQQLTKTHSQDIEKLS
QYRALARDSAQAKRKYQEASKDKDRDKAKDKYVRSLWKLFAHNNRYV LGVRAAQLHHQHHLPLGLLR
SLQDLHEEMACILKEILQEYLEISSLVQDEVVAIHREMAAAAARIQPEAEYQGF LRQYGSAPDVPPCVTF
DESLLEEGEPELPGELQLNELTVESVQHTLTSVTDELAVATEMVFRRQEMVTQLQQLRNEEENTHPRER
VQLLGKRQVLQEALQGLQVALCSQAKLQAQQLLQTKLEHLGPGEPPPVL LLLQDDRSTSSSEQEREGR
TPTLEILKSHISGIFRPKFSNL YRLEGEFGPSIPLLDHLLSTQQPLTKKSGVVLHRAVPKDKWLVNHED
LVLGEQIGRGNFGEVFSGR LRADNTLVAVKSCRETLPPDLKAKFLQEARILKQYSHPNIVRLIGVCTQKQ
PIYIVMELVQGGDFL TFLRTEGARLRVKTL LQMVGDAAAGMEYLESKCCIHRDLAARNCLVTEKNVLKIS
DFGMSREEADGVYAASGGLRQVPVKWTAPEALNYGRYSSESDVWSFGILLWETFSLGASPYPNLSNQTR
EFVEKGGRLPCPELCPDAVFRLMEQCWAYEPGQRPSFSTIYQELQSIRKRHR
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001143784

ORF Size: 2256 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_001143784.1](#), [NP_001137256.1](#)

RefSeq Size: 2477 bp

RefSeq ORF: 2259 bp

Locus ID: 2242

UniProt ID: [P07332](#)

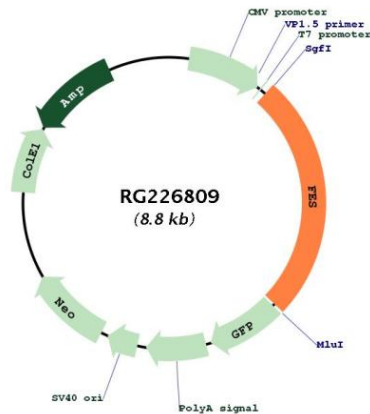
Cytogenetics: 15q26.1

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 RG226809