

Product datasheet for **RG206408**

FES (NM_002005) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FES (NM_002005) 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:

>RG206408 representing NM_002005
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTTCTCTTCTGAGCTGTGCAGCCCCAGGGCCACGGGGTCTGCAGCAAATGCAGGAGGCCGAGC
 TTCGTCTACTGGAGGCATGAGAAAGTGGATGGCCACGGGTCAAGAGTGACAGGGAGTATGCAGGACT
 GCTTACCACATGTCCCTGCAGGACAGTGGGGCCAGAGCCGGGCATCAGCCCTGACAGCCCCATCAGT
 CAGTCTGGGCTGAGATCACCAGCCAACTGAGGGCTGAGCCGCTTGCTGCGGCAGCACGCAGAGGATC
 TGAAGTCAAGGGCCCTGAGCAAGCTGAGCCTGCTCATCCGGGAACGGCAGCAGCTTCGAAAGACCTACAG
 CGAGCAGTGGCAGCAGCTGCAGCAGGAGCTCACCAAGACCCACAGCCAGGACATTGAGAAGCTGAAGAGC
 CAGTACCGAGCTCTGGCACGGGACAGTGCCAAGCCAAGCGCAAGTACCAGGAGGCCAGCAAGACAAGG
 ACCGTGACAAGGCCAAGGACAAGTATGTGCGCAGCCTGTGGAAGCTCTTTGCTCACCACAACCGCTATGT
 GCTGGGCTGCGGGCTGCGCAGCTACACCACCAGCACCACCAGCTCCTGCTGCCCGGCTGCTGCGG
 TCACTGCAGGACCTGCAGGAGGATGGCTTGATCCTGAAGGAGATCCTGCAGGAATACCTGGAGATTA
 GCAGCCTGGTGCAGGATGAGGTGGTGGCCATTCACCGGAGATGGCTGCAGCTGTGCCCGCATCCAGCC
 TGAGGCTGAGTACCAAGGCTTCTGCGACAGTATGGGTCCGCACCTGACGTCCCACCCTGTGTCACGTTC
 GATGAGTCACTGCTTGAGGAGGGTGAACCGCTGGAGCCTGGGAGCTCCAGCTGAACGAGCTGACTGTGG
 AGAGCGTGCAGCACACGCTGACCTCAGTGACAGATGAGCTGGCTGTGGCCACCGAGATGGTGTTCAGGGC
 GCAGGAGATGGTACGCAGCTGCAACAGGAGCTCCGGAATGAAGAGGAGAACACCCACCCCGGGAGCGG
 GTGCAGCTGCTGGCAAGAGGCAAGTGTGCAAGAAGCACTGCAGGGCTGCAGGTAGCGCTGTGCAGCC
 AGGCCAAGCTGCAGGCCAGCAGGAGTTGCTGCAGACCAAGCTGGAGCACCTGGGCCCCCGCGGACCCCC
 GCCTGTGCTGCTCCTGCAGGATGACCGCCACTCCACGTGCTCCTCGGAGCAGGAGCGAGAGGGGGAAAG
 ACACCCACGCTGGAGATCCTTAAGAGCCACATCTCAGGAATCTTCGCCCCCAAGTTCTCGCTCCCTCCAC
 CGCTGCAGCTCATTCCGGAGGTGCAAGAGCCCTGCATGAGCAGCTGTGGTACCACGGGGCCATCCCGAG
 GGCAGAGTGGCTGAGCTGCTGGTGCACCTGCGGACTTCTGGTGCAGGAGAGCCAGGGCAAGCAGGAG
 TACGTGCTGTCGGTGTGTGGGATGGTCTGCCCGGCACCTCATCATCCAGTCTTGATAACCTGTACC
 GACTGGAAGGGGAAGGCTTCTAGCATTCTTTGCTCATCGACCACCTACTGAGCACCCAGCAGCCCT
 CACCAAGAAGAGTGGTGTGCTCCTGCACAGGGCTGTGCCAAGGACAAGTGGGTGCTGAACCATGAGGAC
 CTGGTGTGGGTGAGCAGATTGGACGGGGAACTTTGGCGAAGTGTTCAGCGGACGCTGCGAGCCGACA
 ACACCCCTGGTGGCGGTGAAGTCTTGTGCGAGAGAGCTCCACCTGACCTCAAGGCCAAGTTCTACAGGA
 AGCGAGGATCCTGAAGCAGTACAGCCACCCCAACATCGTGCCTCATTGGTGTCTGCACCCAGAAGCAG
 CCCATCTACATCGTCATGGAGCTTGTGCAGGGGGGCGACTTCTGACCTTCTCCGCAGGGAGGGGGCC
 GCCTGCGGGTGAAGACTGCTGCAGATGGTGGGGATGCAGCTGCTGGCATGGAGTACCTGGAGAGCAA
 GTGCTGCATCCACCGGACCTGGCTGCTCGAACTGCCTGGTGACAGAGAAGAATGTCCTGAAGATCAGT
 GACTTTGGGATGTCCCGAGAGGAAGCCGATGGGGTCTATGCAGCCTCAGGGGGCCTCAGACAAGTCCCG
 TGAAGTGGACCGCACCTGAGGCCCTTAACACGGCCGCTACTCCTCCGAAAGCGACGTGTGGAGCTTTGG
 CATCTTGCTCTGGGAGACCTTCAGCCTGGGGGCTCCCTATCCCAACCTCAGCAATCAGCAGACACGG
 GAGTTTGTGGAGAAGGGGGCCGCTGCCCCTGCCAGAGCTGTGTCCTGATGCCGTGTTACAGGCTCATGG
 AGCAGTGTGGGCTATGAGCCTGGGCAGCGGCCAGCTTCAGCACCATCTACCAGGAGCTGCAGAGCAT
 CCGAAAGCGGCATCGG

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG206408 representing NM_002005
Red=Cloning site Green=Tags(s)

MGFSSEL CSPQGHGVLQQMQEAE LRLLEGMRKWMAQRVKS DREYAGLLHHMSLQDSGGQSR AISPDSPIS
QSWAEITSQTEGLSRLLRQHAEDLNSGPLSKLSLLIRERQQLRKYSEQWQQLQQLTKTHSQDIEKLKS
QYRALARDSAQAKRKYQEASKDKDRDKAKDKYVRSLWKLFAHHRVYVLGVRAAQLHHQHHLQLLPGLLR
SLQDLHEEMACILKEILQEYLEISSLVQDEVVAIHREMAAAAARIQPEAEYQGFLRQYGSAPDVPPCVTF
DESLLEEGEPELPGELQLNELTVESVQHTLTSVTDELAVATEMVFRRQEMVTQLQQELRNEEENTHPRER
VQLLGKRQVLQEALQGLQVALCSQAKLQAQQEELLQTKLEHLGPGEPVLLQLQDDRSTSSSEQEREGR
TPTLEILKSHISGIFRPKFSLPPPLQLIPEVQKPLHEQLWYHGAIPRAEVAELLVHSGDFLVRESQKQE
YVLSVLWDGLPRHFIIQSLDNLVRLGEGGFPSIPLLDHLLSTQQPLTKKSGVVLHRAVPKDKWLVNHED
LVLGEQIGRGNFGEVFSGRLRADNTLVAVKSCRETLPPDLKAKFLQEARILKQYSHPNIVRLIGVCTQKQ
PIYIVMELVQGGDFLTLRTEGARLRVKTLQMVGDAAAGMEYLESKCCIHRLAARNCLVTEKNVLKIS
DFGMSREEADGVYAASGGLRQVPVKTWTAPEALNYGRYSSESDVWSFGILLWETFSLGASYPNLSNQQR
EFVEKGGRLPCPELCPDAVFRLEMCWAYEPGQRPSFSTIYQELQSIRKRHR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

EcoRI BamHI KpnI RBS SgfI AscI

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII NheI RsrII MluI NotI XhoI GFP Tag

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

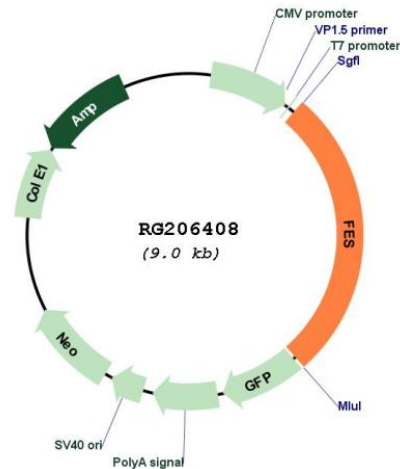
T R T R P L E M E S D - - -

PmeI FseI

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:



ACCN: NM_002005

ORF Size: 2466 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_002005.2](#), [NP_001996.1](#)

RefSeq Size: 2762 bp

RefSeq ORF: 2469 bp

Locus ID: 2242

UniProt ID: [P07332](#)

Cytogenetics:	15q26.1
Domains:	pkinase, SH2, FCH, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Axon guidance
Gene Summary:	<p>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]</p>