

Product datasheet for **RG207877**

FASTK (NM_033015) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FASTK (NM_033015) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FASTK
Synonyms: FAST
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207877 representing NM_033015
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGAGGCCGCGGGGGAACCCGGCCCCGGGCCCCGAGACCGACTGAGGGAGCGACCTGCGCAGGGC
 CCGGGGAGTCATGCTTTCCATCTGATGGTCCCCTGGTGTGTGCCCTGGAACAGGAGCGAAGGCTCCGCCT
 CCCTCCGAAGCCACCTCCCCTTTGCAGCCCCTTCTCCGAGGTGGCAAGGGTTGGAAGCTGCTCTAAGC
 TGCCCCGTTTTCTGCGGTATCCACGGCAGCATCTGATCAGCAGCCTGGCAGAGGCAAGGCCAGAGGAAC
 TGACTCCACAGTGATGGTGTCTCTGGCCAGCACCTGGCCCGCACCGGTTGCGGGAGCCCCAGCTTCT
 GGAAGCCATTGCCCACTTCTGGTGGTTCAGGAAACGCAACTCAGCAGCAAGGTGGTACAGAAGTTGGTC
 CTGCCCTTTGGGCGACTGAACTACCTGCCCTGGAACAGCAGTTTATGCCCTGCCTTGAGAGGATCTGG
 CTCGGGAAGCAGGGGTGGCACCCCTGGCTACAGTCAACATCTTGATGTCAGTGGCACCCCTCATGCT
 GCCCTTCAGAGCCCTGCACTTTGTTTTTCCCCTGGCTTCATCAACTACATCAGTGGCACCCCTCATGCT
 CTGATTGTGCGTCGCTACCTCTCCCTGCTGGACACGGCCGTGGAGCTGGAGCTCCAGGATACCGGGGTC
 CCCGCTTCCCGAAGGCAGCAAGTGCCCATCTTCCCAGCCTCTCATCACCGACCGTGGCCGCTGCAA
 GTACAGTCACAAGGACATAGTAGCTGAGGGGTTGCGCCAGCTGCTGGGGGAGGAGAAATACCGCCAGGAC
 CTGACTGTGCCTCAGGCTACTGCACAGACTTCTGCTGTGCGCCAGCAGCTCTGGTGTGTGCTTCCC
 TGAGGACCCAGGACCCCTTCTGCCATACCCACCAAGGTCTGCCCACAGGGCCAGGCTGCCTCTAGCGC
 CACTACTCGAGACCCTGCCAGAGGGTGGTGTGTTGCGGGAACGCTGGCATTCTGCCGGGACGGC
 CGGGTGTGCTGGGCTCGAGGGCCCTGAGGGAGCGGCACCTAGGCCTGATGGGCTACCAGCTCTGCCGC
 TACCCTTCGAGGAACTGGAGTCCAGAGAGGCCTGCCAGCTCAAGAGCTACCTGAGGCAGAAGCTCCA
 GGCCCTGGGCTGCGCTGGGGCCTGAAGGGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207877 representing NM_033015
Red=Cloning site Green=Tags(s)

MRRPRGEPGPRAPRPTEGATCAGPGESCFFPSDGPLVCALEQERRLRPPKPPPPLQPLLRRGGGLEAALS
 CPRFLRYPRQHLISSLAEARPEELTPHVMVLLAQHLARHRLREPQLLEAIAHFLVVQETQLSSKVQKLV
 LPFGRLNYLPLEQQFMPCLERILAREAGVAPLATVNILMSLCQLRCLPFRALHFVFSFGF INYISGTPHA
 LIVRRYLSLLDTAVELELPGYRGPRLPRRQQVPIFPQPLITDRARCKYSHKDIVAEGLRQLLGEEKYRQD
 LTVPPGYCTDFLLCASSSGAVLPVRTQDPFLPYPPRSCPQQAASSATTRDPAQRVVLVLRERWHF CRDG
 RVLLGSRALRERHLGLMGYQLLPLPFEELESQRGLPQLKSYLRQKLQALGLRWGPEGG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033015

ORF Size: 1224 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_033015.3](#)

RefSeq Size: 1443 bp

RefSeq ORF: 1227 bp

Locus ID: 10922

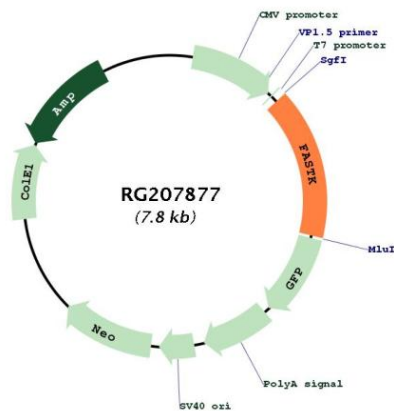
UniProt ID: [Q14296](#)

Cytogenetics: 7q36.1

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase was shown to be activated rapidly during Fas-mediated apoptosis in Jurkat cells. In response to Fas receptor ligation, it phosphorylates TIA1, an apoptosis-promoting nuclear RNA-binding protein. The encoded protein is a strong inducer of lymphocyte apoptosis. Two transcript variants encoding different isoforms have been found for this gene. Other variants exist, but their full-length natures have not yet been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207877