

Product datasheet for MR226655

FasI (NM_010177) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FasI (NM_010177) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FasI
Synonyms:	APT1LG1; CD95-L; CD95L; CD178; Fas-L; Faslg; gld; Tnfsf6; Tnlg1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226655 representing NM_010177 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCAGCAGCCCATGAATTACCCATGTCCCAGATCTTCTGGGTAGACAGCAGTGCCACTTCATCTTGGG
CTCCTCCAGGGTCAGTTTTTCCCTGTCCATCTTGTGGCCTAGAGGGCCGACCAAGGAGACCGCCACC
TCCACCACCACCTGTGTCACTACCACCACCATCACAACCACTCCCACTGCCGCCACTGACCCCTCTA
AAGAAGAAGGACCACAACACAAATCTGTGGCTACCGGTGGTATTTTTCATGGTTCTGGTGGCTCTGGTTG
GAATGGGATTAGGAATGTATCAGCTCTCCACCTGCAGAAGGAACTGGCAGAACTCCGTGAGTTCACCAA
CCAAAGCCTTAAAGTATCATCTTTTAAAAGCAAATAGCCAACCCAGTACACCCCTGAAAAAAGAG
CCGAGGAGTGTGGCCATTTAACAGGGAACCCCACTCAAGGTCCATCCCTCTGGAATGGGAAGACACAT
ATGGAACCGCTCTGATCTCTGGAGTGAAGTATAAGAAAGGTGGCCTTGTGATCAACGAACTGGGTTGTA
CTTCGTGTATTCCAAAGTAACTTCCGGGGTCAGTCTTGCAACAACCAGCCCTAAACCACAAGGTCTAT
ATGAGGAACTCTAAGTATCTGAGGATCTGGTCTAATGGAGGAGAAGAGGTTGAACTACTGCACTACTG
GACAGATATGGGCCACAGCAGCTACCTGGGGCAGTATTCAATCTTACCAGTGTGACCATTTATATGT
CAACATATCTCACTCTCTGATCAATTTGAGGAATCTAAGACCTTTTCGGCTGTATAAGCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226655 representing NM_010177
 Red=Cloning site Green=Tags(s)

MQQPMNYPCPQIFVWDSSATSSWAPPGSVFPCPCGPRGPDQRRPPPPPPVSPPLPPSQPLPLPLTPL
 KKKDHNTNLWL PVVFFMVLVALVGMGLGMYQLFHLQKELAELEFNTQSLKVSSFQKI ANPSTPSEKKE
 PRSVAHLTGNPHRSR SIPLEWEDTYGTALISGVK YKKGG LVINETGLYFVYSKVYFRGQSCNNQPLNKHVY
 MRNSKYPEDLVLMEEKRLNYCTTGQIWAHSSYLGA VFNLTSADHLYVNISQLSLINFEESKTF FGLYKL

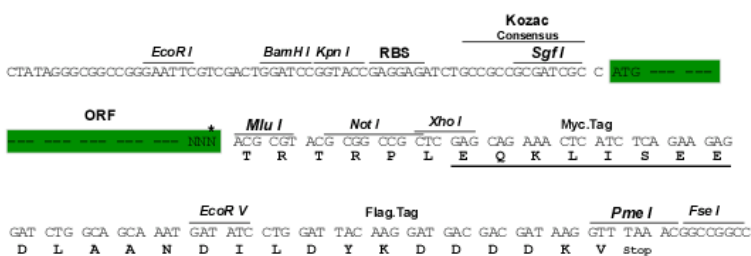
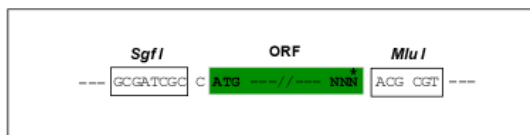
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9008_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010177

ORF Size: 837 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_010177.4](#), [NP_034307.1](#)

RefSeq Size: 1935 bp

RefSeq ORF: 840 bp

Locus ID: 14103

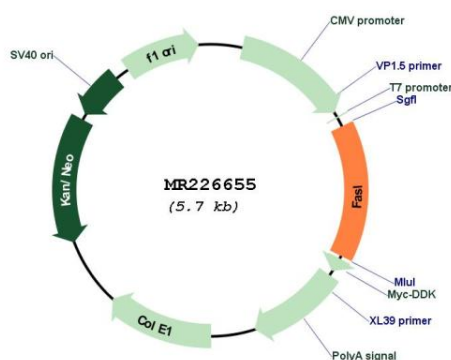
UniProt ID: [P41047](#)

Cytogenetics: 1 69.95 cM

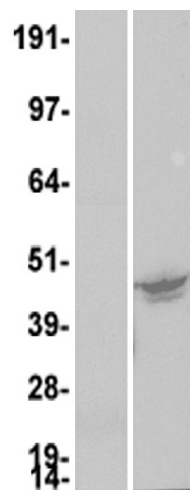
MW: 31.9 kDa

Gene Summary: Cytokine that binds to TNFRSF6/FAS, a receptor that transduces the apoptotic signal into cells (PubMed:7511063). Involved in cytotoxic T-cell-mediated apoptosis, natural killer cell-mediated apoptosis and in T-cell development (PubMed:19794494, PubMed:7532682). Initiates fratricidal/suicidal activation-induced cell death (AICD) in antigen-activated T-cells contributing to the termination of immune responses (PubMed:19794494). TNFRSF6/FAS-mediated apoptosis has also a role in the induction of peripheral tolerance (PubMed:10779162). Binds to TNFRSF6B/DcR3, a decoy receptor that blocks apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226655



Western blot validation of overexpressed FasI protein using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with MR226655 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).