

Product datasheet for MR204485

Fgl1 (NM_145594) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgl1 (NM_145594) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fgl1
Synonyms:	Mfire1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204485 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGAAAGATTTACAGCTTCGTCCTGGTCGCCATTGCTCTGATGATGGGAAGGGAAGGTTGGGCCCTCG
AGAGTGAGAGCTGCTTGCGGGAGCAGGTAAGGCTCAGGGCTCAGGTGCACCAGCTTGAGACCCGGGTCAA
ACAACAACAGACCATGATTGCACAGCTCTGCATGAGAAGGAAGTCCAGTTTCTGGATAAAGGATCGGAG
AACAGTTTCATTGACCTTGGAGGCAAGAGGCAGTATGCAGATTGTTAGAGATTTACAATGACGGATTTA
AGCAGAGTGGATTTACAAAATCAAACCTTTCAGAGCCTGGCAGAATTCTGTTTATTGTGACATGTC
TGATGGAGGGGATGGACTGTAATTCAGAGACGATCTGATGGCAGTGAGAACTTTAACAGGGGTTGGAA
GACTATGAAAATGGCTTTGGAACTTTGTCCAAAACAATGGCGAATACTGGCTGGGTAACAAAAACATTA
ACTTGCTAACTATTCAAGGAGACTACACTTTAAAAATCGACCTGCAGATTTTGAGAAAAACAGCAGCTT
CGCACAATACCAAAGTTTAAAGTTGGTGATAAAAAGTCTTTTTATGAACTAAATATTGGAGAATATTCT
GGCACAGCTGGAGATTCCTGTGAGAACTTTTCATCCTGAAGTACAGTGGTGGGCTAGTCACCAAAGAA
TGAAGTTCAGCACGTGGGACAGAGATAACGACAACCTACCAAGGAACTGTGCTGAGGAAGAGCAGTCTGG
CTGGTGGTTTAAACAGGTGTCACCTGCAAACCTGAACGGTGTCTACTACCGCGGTTCTACAGGGCAGAA
ACGGATAATGGTGTGTGGTACACCTGGCATGGGTGGTATTCTTGAAATCTGTGGTTATGAAAA
TTAGGCCAAGTGATTTTATTCCAATATTATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204485 protein sequence
 Red=Cloning site Green=Tags(s)

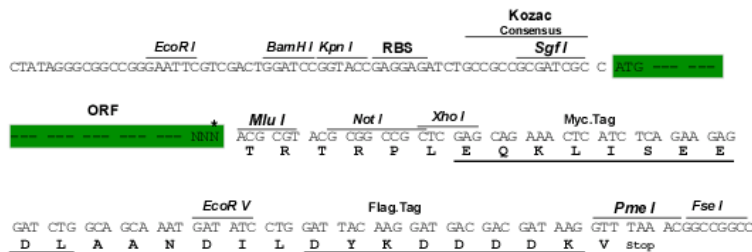
MGKIYSFVLVAIALMMGREGWALESESLREQVRLRAQVHQLETRVKQQQTMTIAQLLHEKEVQFLDKGSE
 NSFIDLGGKRQYADCSEIYNDGFKQSGFYKIKPLQSLAEFSVYCDMSDGGGWTVIQRSDGSENFNRGWN
 DYENGFNGFVQNGEYWLGNKNINLLTIQGDYTLKIDLDFEKNSFAAQYQSFVKVDKKSFYELNIGEYS
 GTAGDSLSGTFHPEVQWASHQRMKFSTWDRDNDNYQGNCAEEEEQSGWWFNRRHSANLNGVYYRGSYRAE
 TDNGVVWYTWHGWWYSLKSVVMKIRPSDFIPNII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145594

ORF Size: 945 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_145594.1](#), [NP_663569.1](#)

RefSeq Size: 1120 bp

RefSeq ORF: 945 bp

Locus ID: 234199

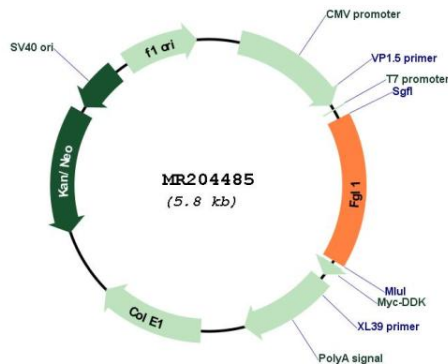
UniProt ID: [Q71KU9](#)

Cytogenetics: 8 A4

MW: 36.4 kDa

Gene Summary: Immune suppressive molecule that inhibits antigen-specific T-cell activation by acting as a major ligand of LAG3 (PubMed:30580966). Responsible for LAG3 T-cell inhibitory function (PubMed:30580966). Binds LAG3 independently from MHC class II (MHC-II) (PubMed:30580966). In addition to its role in inhibiting inflammatory immune responses, also plays a role in hepatocytes (By similarity). Under normal physiological conditions, primarily secreted from hepatocytes and contributes to its mitogenic and metabolic functions (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204485