

Product datasheet for **MG204485**

Fgl1 (NM_145594) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgl1 (NM_145594) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fgl1
Synonyms:	Mfire1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204485 representing NM_145594 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAAAGATTTACAGCTTCGTCCTGGTCGCCATTGCTCTGATGATGGGAAGGGAAGGTTGGGCCCTCG
AGAGTGAGAGCTGCTTGCGGGAGCAGGTAAGGCTCAGGGCTCAGGTGCACCAGCTTGAGACCCGGGTCAA
ACAACAACAGACCATGATTGCACAGCTCTGCATGAGAAGGAAGTCCAGTTTCTGGATAAAGGATCGGAG
AACAGTTTCATTGACCTTGGAGGCAAGAGGCAGTATGCAGATTGTTAGAGATTTACAATGACGGATTTA
AGCAGAGTGGATTTTACAAAATCAAACCTTTCAGAGCCTGGCAGAATTCTCTGTTTATTGTGACATGTC
TGATGGAGGGGGATGGACTGTAATTCAGAGACGATCTGATGGCAGTGAGAACTTTAACAGGGGTTGGAAT
GACTATGAAAATGGCTTTGGAACTTTGTCCAAAACAATGGCGAATACTGGCTGGGTAACAAAAACATTA
ACTTGCTAACTATTCAAGGAGACTACACTTTAAAAATCGACCTGACAGATTTTGAGAAAAACAGCAGCTT
CGCACAATACCAAAGTTTAAAGTTGGTGATAAAAAGTCTTTTTATGAACTAAATATTGGAGAATATTCT
GGCACAGCTGGAGATTCCCTGTCAGGAACCTTTTCATCCTGAAGTACAGTGGTGGGCTAGTCACCAAAGAA
TGAAGTTCAGCACGTGGGACAGAGATAACGACAACCTACCAAGGAACTGTGCTGAGGAAGAGCAGTCTGG
CTGGTGGTTTAAACAGGTGTCACCTGCAAACCTGAACGGTGTCTACTACCGCGTTCTACAGGGCAGAA
ACGGATAATGGTGTGTGGTACACCTGGCATGGGTGGTATTCTTGAAATCTGTGTTATGAAAA
TTAGGCCAAGTGATTTTATTCCAATATTATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204485 representing NM_145594
 Red=Cloning site Green=Tags(s)

MGKIYSFVLVAIALMMGREGWALESESLREQVRLRAQVHQLETRVKQQQTMI AQLLHEKEVQFLDKGSE
 NSFIDLGGKRQYADCSEIYNDGFKQSGFYKIKPLQSLAEFSVYCDMSDGGGWTVIQRSDGSENFNRGWN
 DYENGFNGFVQNGEYWLGNKNINLLTIQGDYTLKIDLDFEKNSSFAQYQSFVKVGDKKSFYELNIGEYS
 GTAGDSLSGTFHPEVQWASHQRMKFSTWDRDNDNYQGNCAEEEEQSGWWFNRCHSANLNGVYYRGSYRAE
 TDNGVVWYTWHGWWYSLKSVVMKIRPSDFIPNII

TRTRPLE - GFP Tag - V

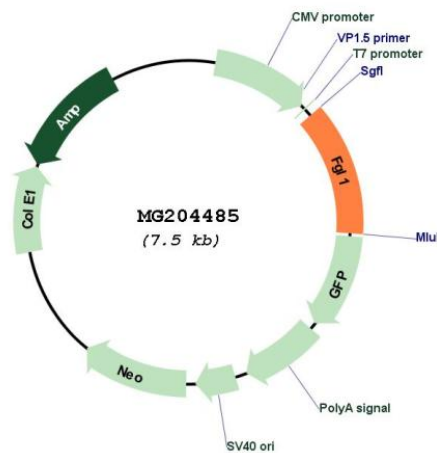
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_145594

ORF Size: 942 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:	<ol style="list-style-type: none">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:	1102 bp
RefSeq ORF:	945 bp
Locus ID:	234199
UniProt ID:	Q71KU9
Cytogenetics:	8 A4
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]