

Product datasheet for **MG224670**

Itln1 (NM_010584) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itln1 (NM_010584) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Itln1
Synonyms:	IntL; Itln; Itln2; Itln3; Itln5; Itlna; Lfr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224670 representing NM_010584 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCCAACGGGATTCCTGCTGTTTATCATGGTTGCTACCAGAGGTTGCAGTGCAGCTGAAGAGAACC
TGGACACCAACAGGTGGGGCAATCTTTCTTTTCTCTGCCCAGAAGCTGCAAGGAAATCAAGCAGGA
GCACACAAAGGCACAAGATGGTCTCTATTTCTGCGCACGAAGAATGGTGCATCTACCAGACCTTCTGT
GACATGACCACTGCAGGTGGTGGCTGGACCTGGTGGCTAGTGTGCATGAGAACAACATGCGTGGGAAGT
GCACTGTGGGTGATCGCTGGTCCAGTCAGCAAGGCAACAGAGCTGACTACCCAGAGGGGGATGGCAACTG
GGCCAAC TACAACACCTTTGGGTCTGCAGAGGCTGCCACAAGTATGACTACAAGAACCCCTGGCTACTTT
GACATCCAGGCTGAGAACCTGGGCATCTGGCACGTGCCCAACAAAAGCCCCCTGCACAACCTGGAGGAAGA
GCTCCCTGCTGAGGTACCGCACCTTCACTGGCTTCTGTCAGCACTTGGGACATAATCTGTTTGGCCTCTA
CAAGAAGTACCCAGTGAATACGGAGAAGGAAAGTGTGGACTGACAATGGCCCAGCATTACCTGTGGTC
TATGACTTTGGTATGCTCGGAAGACAGCCTCTTATTACTCCCCCTTGCCAGAGGGAATTTACTGCAG
GATATGTTTCAGTTCAGAGTGTAAATAATGAGAGAGCGGCCAGTGCCTTGTGTGCTGGCGTGAGGGTCC
TGGATGTAATACTGAACATCACTGCATCGGTGGAGGAGGATTCTCCAGAAGGTAACCCCGTGCAGTGT
GGAGACTTTGCGTCATTTGATTGGGATGGATATGGAATCACAATGGGTACAGCAGTAGCCGGAAGATAA
CTGAAGCAGCTGTGCTTCTGTTTATCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224670 representing NM_010584
 Red=Cloning site Green=Tags(s)

MTQLGFLLFIMVATRGCSAAEENLDTNRWGNSSFSSLPKSCKEIKQEHTKAQDGLYFLRTKNGVIYQTFCDMTTAGGGWTLVASVHENNMGRKCTVGRWSSQQGNRADYPEGDGNWANYNTFGSAEAAATSDDYKNPGYFDIQAENLGIWHVPNKSPHLHNWRKSSLLRVRTFTGFLQHLGHNLFGLYKKYPVKYGEKWCWTDNGPALPVVYDFGDARKTASYSPSGQREFTAGYVQFRVFNNERAASALCAGVRVTGCNTEHHCIGGGGFPEGNPVQC
 GDFASFDWDGYGTHNGYSSSRKITEAAVLLFYR

TRTRPLE - GFP Tag - V

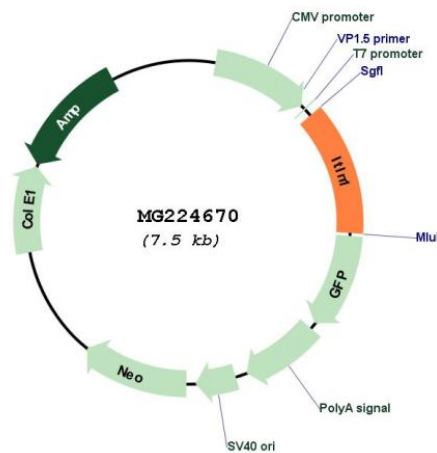
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_010584

ORF Size: 939 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_010584.3](#), [NP_034714.1](#)

RefSeq Size: 1139 bp

RefSeq ORF: 942 bp

Locus ID: 16429

UniProt ID: [O88310](#)

Cytogenetics: 1 H3

Gene Summary:

Lectin that specifically recognizes microbial carbohydrate chains in a calcium-dependent manner (PubMed:26148048). Binds to microbial glycans that contain a terminal acyclic 1,2-diol moiety, including beta-linked D-galactofuranose (beta-Galf), D-phosphoglycerol-modified glycans, D-glycero-D-talo-oct-2-ulosonic acid (KO) and 3-deoxy-D-manno-oct-2-ulosonic acid (KDO). Binds to glycans from Gram-positive and Gram-negative bacteria, including *K.pneumoniae*, *S.pneumoniae*, *Y.pestis*, *P.mirabilis* and *P.vulgaris*. Does not bind mammalian glycans. Probably plays a role in the defense system against microorganisms. May function as adipokine that has no effect on basal glucose uptake but enhances insulin-stimulated glucose uptake in adipocytes. Increases AKT phosphorylation in the absence and presence of insulin. May interact with lactoferrin/LTF and increase its uptake, and may thereby play a role in iron absorption (By similarity).[UniProtKB/Swiss-Prot Function]