

Product datasheet for MR224670

Itln1 (NM_010584) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itln1 (NM_010584) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itln1
Synonyms:	IntL; Itln; Itln2; Itln3; Itln5; Itlna; Lfr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224670 representing NM_010584 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGACCCAACGGGATTCCTGCTGTTTATCATGGTTGCTACCAGAGGTTGCAGTGCAGCTGAAGAGAACC
TGGACACCAACAGGTGGGCAATCTTTCTTTTCTCTGCCCAGAAGCTGCAAGGAAATCAAGCAGGA
GCACACAAAGGCACAAGATGGTCTCTATTTCTGCGCACGAAGAATGGTGCATCTACCAGACCTTCTGT
GACATGACCACTGCAGGTGGTGGCTGGACCTGGTGGCTAGTGTGCATGAGAACAACATGCGTGGGAAGT
GCACTGTGGGTGATCGCTGGTCCAGTCAGCAAGGCAACAGAGCTGACTACCCAGAGGGGGATGGCAACTG
GGCCAAC TACAACACCTTTGGGTCTGCAGAGGCTGCCACAAGTGATGACTACAAGAACCCCTGGCTACTTT
GACATCCAGGCTGAGAACCTGGGCATCTGGCACGTGCCCAACAAAAGCCCCCTGCACAAC TGGAGGAAGA
GCTCCCTGCTGAGGTACCGCACCTTCACTGGCTTCTGTCAGCACTTGGGACATAATCTGTTTGGCCTCTA
CAAGAAGTACCCAGTGAATACGGAGAAGGAAAGTGTGGACTGACAATGGCCCAGCATTACCTGTGGTC
TATGACTTTGGTATGCTCGGAAGACAGCCTCTTACTCCCCCTCTGGCCAGAGGGAATTTACTGCAG
GATATGTTTCAGTTCAGAGTGTAAATAATGAGAGAGCGGCCAGTGCCTTGTGTGCTGGCGTGAGGGTCAC
TGGATGTAATACTGAACATCACTGCATCGGTGGAGGAGGATTCTCCAGAAGGTAACCCCGTGCAGTGT
GGAGACTTTGCGTCATTTGATTGGGATGGATATGGAATCACAATGGGTACAGCAGTAGCCGGAAGATAA
CTGAAGCAGCTGTGCTTCTGTTTATCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224670 representing NM_010584
Red=Cloning site Green=Tags(s)

MTQLGFLLFIMVATRGCSAAEENLDTNRWGNSSFSSLPSCKEIKQEHTKAQDGLYFLRTKNGVIYQTFCDMTTAGGGWTLVASVHENNMGRKCTVGDWRSSQGNRADYPEGDGNWANYNTFGSAEAAATSDDYKNPGYFDIQAENLGIWHVPNKSPHLHNWRKSSLLRYRTFTGFLQLHLGHNLFGLYKYPVKYGEKWCWDNGPALPVVYDFGDARKTASYYSQREFTAGYVQFRVFNNERAASALCAGVRVTGCNTEHHCIGGGGFPEGNPVQCGDFASFDWDGYGTHNGYSSSRKITEAAVLLFYR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9007_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010584

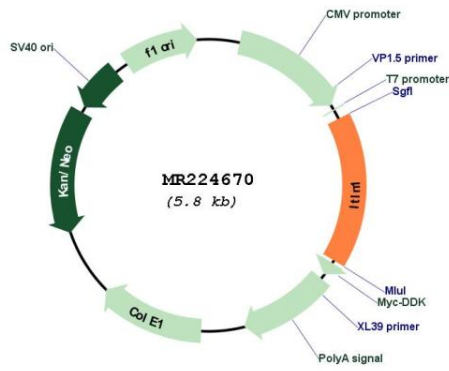
ORF Size: 939 bp

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:	<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_010584.3 , NP_034714.1
RefSeq Size:	1139 bp
RefSeq ORF:	942 bp
Locus ID:	16429
UniProt ID:	O88310
Cytogenetics:	1 H3
MW:	35.4 kDa
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 <i>K.pneumoniae</i> , <i>S.pneumoniae</i> , <i>Y.pestis</i> , <i>P.mirabilis</i> and <i>P.vulgaris</i> . 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]

Product images:



Circular map for MR224670