

Product datasheet for **RC204660**

ITLN1 (NM_017625) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITLN1 (NM_017625) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ITLN1
Synonyms:	hIntL; HL-1; HL1; INTL; ITLN; LFR; omentin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204660 representing NM_017625 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCC

ATGAACCAACTCAGCTTCCTGCTGTTTCTCATAGCGACCACCAGAGGATGGAGTACAGATGAGGCTAATA
CTTACTTCAAGGAATGGACCTGTTCTTCGTCTCCATCTCTGCCAGAAGCTGCAAGGAAATCAAAGACGA
ATGTCCTAGTGCATTTGATGGCCTGTATTTCTCCGCACTGAGAATGGTGTATCTACCAGACCTTCTGT
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GCACGGTGGGCGATCGCTGGTCCAGTCAGCAGGGCAGCAAAGCAGTCTACCCAGAGGGGGACGGCAACTG
GGCCAAC TACAACACCTTTGGATCTGCAGAGGCGCCACGAGCGATGACTACAAGAACCCTGGCTACTAC
GACATCCAGGCCAAGGACCTGGGCATCTGGCACGTGCCAATAAGTCCCCATGCAGCACTGGAGAAACA
GCTCCCTGCTGAGGTACCGCACGGACACTGGCTTCCCTCCAGACTGGGACATAATCTGTTTGGCATCTA
CCAGAAATATCCAGTAAATATGGAGAAGGAAAGTGTGGACTGACAACGGCCCGGTGATCCCTGTGGTC
TATGATTTGGCGACGCCAGAAAACAGCATCTTATTACTACCCTATGGCCAGCGGGAATTCAGTGC GG
GATTTGTCAGTTCAGGGTATTTAATAACGAGAGAGCAGCCAACGCCCTTGTGTGGAATGAGGGTCAC
CGGATGTAACACTGAGCACCACTGCATTGGTGGAGGAGGATACTTCCAGAGGCCAGTCCCAGCAGTGT
GGAGATTTTCTGTTTTGATTGGAGTGGATATGGAATCATGTTGGTTACAGCAGCAGCCGTGAGATAA
CTGAGGCAGCTGTGCTTCTATTCTATCGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204660 representing NM_017625
Red=Cloning site Green=Tags(s)

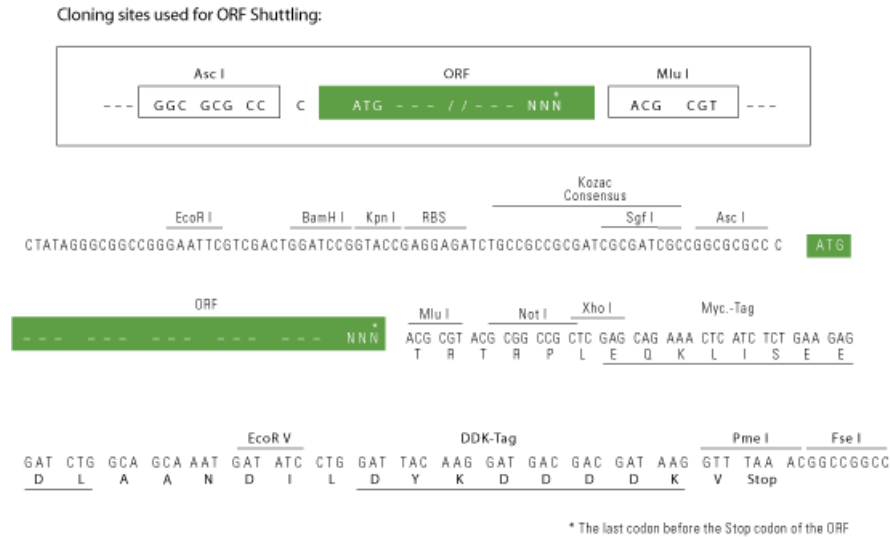
MNQLSFLFLIATTRGWSTDEANTYFKEWTCSSSPSLPRSCKEIKDECP SAFDGLYFLRTENGV IYQTFCDMTSGGGGWTLVASVHENDMRGKCTVGRWSSQQGSKAVYPEGDGNWANYNTFGSAEAAATSDDYKNPGYYDIQAKDLGIWHVFNKSPMQHWRNSSLLRYRTDTGFLQTLGHNLFGIYQKYPVKYGEKWCWTDNGPVI PVVYDFGDAQKTASYSPYQGREFTAGFVQFRVFNNERAANALCAGMRVTGCNTEHHCIGGGGYFPEAS PQQC GDFSGFDWSGYGTHVGYSSSREITEAAVLLFYR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4339_g01.zip

Restriction Sites: AscI-MluI

Cloning Scheme:



ACCN: NM_017625

ORF Size: 939 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_017625.3](#)

RefSeq Size: 1209 bp

RefSeq ORF: 942 bp

Locus ID: 55600

UniProt ID: [Q8WWA0](#)

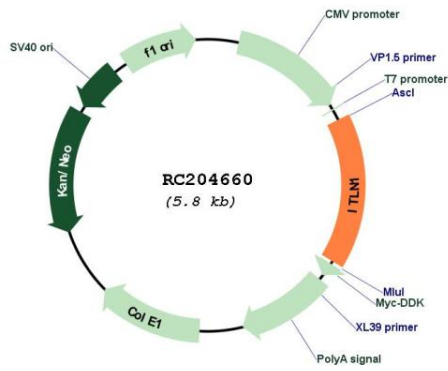
Cytogenetics: 1q23.3

Protein Families: Druggable Genome, Secreted Protein

MW: 34.8 kDa

Gene Summary: Lectin that specifically recognizes microbial carbohydrate chains in a calcium-dependent manner (PubMed:11313366, 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) (PubMed:26148048). Binds to glycans from Gram-positive and Gram-negative bacteria, including *K.pneumoniae*, *S.pneumoniae*, *Y.pestis*, *P.mirabilis* and *P.vulgaris* (PubMed:26148048). Does not bind human glycans (PubMed:26148048). Probably plays a role in the defense system against microorganisms (Probable). May function as adipokine that has no effect on basal glucose uptake but enhances insulin-stimulated glucose uptake in adipocytes (PubMed:16531507). Increases AKT phosphorylation in the absence and presence of insulin (PubMed:16531507). May interact with lactoferrin/LTF and increase its uptake, and may thereby play a role in iron absorption (PubMed:11747454, PubMed:23921499).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204660