

## Product datasheet for **RG204660**

### ITLN1 (NM\_017625) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ITLN1 (NM_017625) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ITLN1
Synonyms:	hIntL; HL-1; HL1; INTL; ITLN; LFR; omentin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204660 representing NM_017625 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC  
GCC

ATGAACCAACTCAGCTTCCTGCTGTTTCTCATAGCGACCACCAGAGGATGGAGTACAGATGAGGCTAATA  
CTTACTTCAAGGAATGGACCTGTTCTTCGTCTCCATCTCTGCCAGAAGCTGCAAGGAAATCAAAGACGA  
ATGTCCTAGTGCATTTGATGGCCTGTATTTTCTCCGCACTGAGAATGGTGTATCTACCAGACCTTCTGT  
GACATGACCTCTGGGGTGGCGGCTGGACCTGGTGGCCAGCGTGCACGAGAATGACATGCGTGGGAAGT  
GCACGGTGGGCGATCGCTGGTCCAGTCAGCAGGGCAGCAAAGCAGTCTACCCAGAGGGGACGGCAACTG  
GGCCAAC TACAACACCTTTGGATCTGCAGAGGCGCCACGAGCGATGACTACAAGAACCCTGGCTACTAC  
GACATCCAGGCCAAGGACCTGGGCATCTGGCACGTGCCCAATAAGTCCCCATGCAGCACTGGAGAAACA  
GCTCCCTGCTGAGGTACCGCACGGACACTGGCTTCCTCCAGACTGGGACATAATCTGTTTGGCATCTA  
CCAGAAATATCCAGTGAATATGGAGAAGGAAAGTGTGGACTGACAACGGCCCGGTGATCCCTGTGGTC  
TATGATTTGGCGACGCCAGAAAACAGCATCTTATTACTACCCTATGGCCAGCGGGAATTCAGTGC GG  
GATTTGTCAGTTCAGGGTATTTAATAACGAGAGAGCAGCCAACGCCCTTGTGTGGAATGAGGGTCAC  
CGGATGTAACACTGAGCACCCTGCATTGGTGGAGGAGGATACTTCCAGAGGCCAGTCCCAGCAGTGT  
GGAGATTTTCTGTTTTGATTGGAGTGGATATGGAATCATGTTGGTTACAGCAGCAGCCGTGAGATAA  
CTGAGGCAGCTGTGCTTATTCTATCGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204660 representing NM\_017625  
Red=Cloning site Green=Tags(s)

MNQLSFLFLIATTRGWSTDEANTYFKEWTCSSSPSLPRSCKEIKDECPSAFDGLYFLRTENGVYQTFCDMTSGGGGWTLVASVHENDMRGKCTVGDWRSSQGGSKAVYPEGDGNWANYNTFGSAEAAATSDDYKNPGYYDIQAKDLGIWHVPNKSPMQHWRNSLLRYRTDTGFLQTLGHNLFGIYQKYPVKYGEKWCWTDNGPVIPVYDFGDAQKTASYSPYQGREFTAGFVQFRVFNNERAANALCAGMRVTGCNTEHHCIGGGGYFPEASPPQC  
 GDFSGFDWSGYGTHVGYSSSREITEAAVLLFYR

TRTRPLE - GFP Tag - V

**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](#)

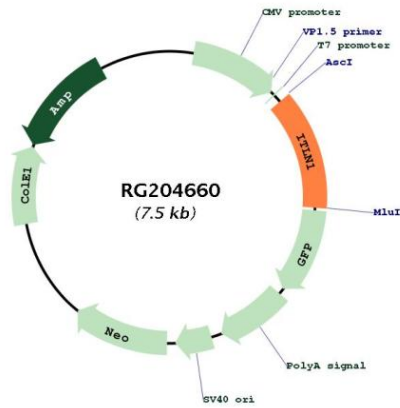
**Cytogenetics:** 1q23.3

**Protein Families:** Druggable Genome, Secreted Protein

**MW:** 35 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 RG204660