

Product datasheet for **SC125903**

ITLN1 (NM_017625) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ITLN1 (NM_017625) Human Untagged Clone
Tag: Tag Free
Symbol: ITLN1
Synonyms: hIntL; HL-1; HL1; INTL; ITLN; LFR; omentin
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_017625 edited
 AGGAGCGTTTTGGAGAAAGCTGCACCTCTGTTGAGCTCCAGGGCGCAGTGGAGGGAGGGA
 GTGAAGGAGCTCTGTACCCAAGGAAAGTGACGCTGAGACTCAGACAAGATTACAATGA
 ACCAACTCAGCTTCTGTGCTGTTTCTCATAGCGACCACCAGAGGATGGAGTACAGATGAGG
 CTAATACTTACTTCAAGGAATGGACCTGTTCTTCGTCTCCATCTCTGCCAGAAGCTGCA
 AGGAAATCAAAGACGAATGTCCTAGTGCATTTGATGGCCTGTATTTCTCCGCACTGAGA
 ATGGTGTATCTACCAGACCTTCTGTGACATGACCTCTGGGGTGGCGGCTGGACCCTGG
 TGGCCAGCGTGCACGAGAATGACATGCGTGGGAAGTGCACGGTGGCGATCGCTGGTCCA
 GTCAGCAGGGCAGCAAAGCAGTCTACCCAGAGGGGACGGCAACTGGGCCAACTACAACA
 CCTTTGGATCTGCAGAGGCGGCCACGAGCGATGACTACAAGAACCCTGGCTACTACGACA
 TCCAGGCCAAGGACCTGGGCATCTGGCAGTGCCCAATAAGTCCCCATGCAGCACTGGA
 GAAACAGCTCCCTGCTGAGGTACCGCACGACACTGGCTTCTCCAGACACTGGGACATA
 ATCTGTTTGGCATCTACCAGAAATATCCAGTGAATATGGAGAAGGAAAGTGTGGACTG
 ACAACGGCCCGGTGATCCCTGTGGTCTATGATTTTGGCGACGCCAGAAAACAGCATCTT
 ATTACTCACCTATGGCCAGCGGAATTCAGTGCAGGATTTGTTTTCAGTTCAGGGTATTTA
 ATAACGAGAGAGCAGCCAACGCCTTGTGTGCTGGAATGAGGGTACCCGGATGTAACACTG
 AGCACCCTGCATTGGTGGAGGAGGATACTTTCCAGAGGCCAGTCCCCAGCAGTGTGGAG
 ATTTTCTGGTTTTGATTGGAGTGGATATGGAACCTCATGTTGGTTACAGCAGCAGCCGTG
 AGATACTGAGGCAGCTGTCTTCTATTCTATCGTTGAGAGTTTTGTGGGAGGGAACCCA
 GACCTCTCTCCCAACCATGAGATCCCAAGGATGGAGAACAACCTACCCAGTAGCTAGAA
 TGTTAATGGCAGAAAGAGAAAACAATAAATCATATTGACTCAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_017625 unedited TCAAATATTTGTAATACGACTCACTATAGGGCGAGCCGCGAATTCGCCATTACGGCCGGG AGGAGCGTTTTTGGAGAAAGCTGCACTCTGTTGAGCTCCAGGGCGCAGTGGAGGGAGGGA GTGAAGGAGCTCTCTGTACCCAAGGAAAGTGCAGCTGAGACTCAGACAAGATTACAATGA ACCAACTCAGCTTCTCTGTCTGTTTCTCATAGCGACCACCAGAGGATGGAGTACAGATGAGG CTAATACTTACTTCAAGGAATGGACCTGTTCTTCGTCTCCATCTCTGCCCAGAAGCTGCA AGGAAATCAAAGACGAATGTCCTAGTGCATTTGATGGCCTGTATTTTCTCCGCACTGAGA ATGGTGTATCTACCAGACCTTCTGTGACATGACCTCTGGGGGTGGCGGCTGGACCCTGG TGGCCAGCGTGCACGAGAATGACATGCGTGGGAAGTGCACGGTGGGCGATCGCTGGTCCA GTCAGCAGGGCAGCAAAGCAGTCTACCCAGAGGGGGACGGCAACTGGGCCAACTACAACA CCTTTGGATCTGCAGAGGGCGCCACGAGCGATGACTACNAGAACCCTGGCTACTACGACA TCCAGGCCAAAGACCTGGGCATCTGGCACGTGCCCAAATAGTCCCCATGCAGCACTGGA AGAACAGTCCCTGCTGGAGTACCGCACGGACCCTGGCTTCTCCAGACCCTGGGACATA AATCTGGTTGGCATCTACCAGAAATTTCCAGTGAATATGGAGAAGGGAAATTGTGGAA CTGACACCGGCCCGGGGATCCCTGGGGGCTAAGAATTTGGCGACCCCCAAAAAAGCA TCTCTATCCCTACCCCTGGGCCCGGGAATTTCTGGGGGAATTGGTCANTTAGGGGATT TAAATCCGAGAG
Restriction Sites:	NotI-NotI
ACCN:	NM_017625
Insert Size:	1200 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_017625.2</u> , <u>NP_060095.2</u>
RefSeq Size:	1209 bp
RefSeq ORF:	942 bp
Locus ID:	55600
UniProt ID:	<u>Q8WWA0</u>
Cytogenetics:	1q23.3
Protein Families:	Druggable Genome, Secreted Protein

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]