

Product datasheet for **MC219800**

Itsn1 (NM_001110276) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itsn1 (NM_001110276) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itsn1
Synonyms:	AA517634; AA545208; AI316805; AI839402; AI848451; Ehsh1; Ese1; Itsn; Sh3p17
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219800 representing NM_001110276
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCAGTTTCCACACCTTTTCGGTGGTAGCCTGGATGTCTGGCCATAACTGTGGAGAAAGGGCCA
 AGCATGACCAGCAGTTCCTTAGCCTGAAGCCGATAGCGGATTTTACTGGTGATCAAGCGAGGAACTT
 TTTTTCCAATCTGGTTACCTCAGCCTGTCTTAGCACAAATATGGGCGCTAGCGGACATGAATAACGAT
 GGAAGGATGGATCAAGTGAATTTTCCATAGCCATGAAGCTTATCAAAGTGAAGCTACAAGGATATCAGC
 TCCCTCCACACTTCCCCTGTCATGAAACAGCAACCAGTGGCTATTTCCAGTGCACCAGCATTTGGTAT
 AGGAGGGATTGCTAGCATGCCACCACTCACAGCTGTTGCTCCTGTGCCAATGGGCTCCATTCCAGTTGTT
 GGAATGTCTCCACCCTTAGTATCTTCTGCTCCAGCAGCAGTGCCTCCCTGGCTAACGGGGCTCCTC
 CCGTCATACAGCCTCTGCTGCGTTTGGCGATCCTGCAGCCACATTGCCAAAGAGTTCTTCTTCAGCAG
 ATCTGGTCCAGGGTCACAATTAACACTAAGTTACAGAAGGCACAATCATTGATGTCGCCAGCGCCCT
 CCAGCAGCAGAATGGGCTGTGCCTCAGTCATCAAGGCTGAAATACAGGCAGTTATTCAACAGCCACGACA
 AACTATGAGTGGACACTTAACAGGTCCCAGGCAAGAATATTCTCATGAATCAAGTTTACCCAGGC
 TCAGCTGGCTTCAATATGGAATCTTTCTGACATTGATCAAGATGGAAAACACTGCAGAGAATTTATC
 CTAGCTATGCACCTAATTGATGTTGCCATGTCTGGTCAGCCACTGCCGCCGCTCTGCCTCCAGAATACA
 TCCCTCCTTCTTCAAGAGATTCGCTCCGGCAGTGGGATGTCCGTCATAAGCTCTTCTTGTGGATCA
 GAGGCTGCCTGAGGAGCCGTCGTAGAGGATGAGCAGCAGCCAGAGAAGAAACTGCCTGTGACATTTGAA
 GATAAGAAGCGGGAGAATTCGAGCGAGGCAGTGTGGAGCTGGAGAAGCGCCCAAGCGCTCTTGGAGC
 AGCAGCGCAAAGAGCAGGAGCGGTTGGCTCAGCTGGAGCGCGGAGCAGGAGAGGAAAGAGCGGAGCG
 CCAGGAGCAGGAGCGCAAGCGGAGCTGGAGCTGGAGAAGCAGCTGGAGAAGCAGCGGGAGCTGGAGCGG
 CAGCGAGAGGAGGAGAGGAGGAAGGAGATCGAGAGGCGGAGGCCGCAAAACGGGAATGGAAAGGCAGC
 GACAACCTGAATGGGAACGGAACCGGAGACAGGAACCTCCTGAATCAGAGGAACAAGGAGCAGGAGGGCAC
 CGTGGTCTGAAGGCAAGGAGGAAGACTCTGGAGTTTGGAGTTAGAAAGCTCTGAATGACAAAAAGCATCAG
 CTAGAAGGAAAACCTCAGGATATCAGGTGTCGACTGGCAACCCAGAGGCAAGAAATTGAGAGCACGAACA
 AGTCTAGAGAGCTAAGAATTGCTGAAATCACCCACTTACAGCAGCAGTTGCAGGAATCTCAGCAAATGCT
 TGAAGACTTATCCAGAGAAACAGATACTCAGTGACCAGTTAAAACAAGTCCAGCAGAACAGTTTGCAT
 AGAGACTCGTCTTACCCTCAAAGAGCCTTGAAGCAAAGGAGCTGGCCCGGAGCAGCTCCGGGAGC
 AGCTGGACGAGGTGGAGAGAGAGACCAGGTCAAAGCTGCAGGAGATTGATGTTTTCAACAACCAGCTGAA
 GGTGACTCCTGGGTGCTGGGCGCCTCCCTTTGCTTGGCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001110276

Insert Size: 1866 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:

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_001110276.1](#), [NP_001103746.1](#)

RefSeq Size: 6154 bp

RefSeq ORF: 1866 bp

Locus ID: 16443

Cytogenetics: 16 C4

Gene Summary: Adapter protein that provides a link between the endocytic membrane traffic and the actin assembly machinery (PubMed:10064583). Acts as guanine nucleotide exchange factor (GEF) for CDC42, and thereby stimulates actin nucleation mediated by WASL and the ARP2/3 complex (By similarity). Plays a role in the assembly and maturation of clathrin-coated vesicles (By similarity). Recruits FCHSD2 to clathrin-coated pits (By similarity). Involved in endocytosis of activated EGFR, and probably also other growth factor receptors (PubMed:16914641). Involved in endocytosis of integrin beta-1 (ITGB1) and transferrin receptor (TFR); internalization of ITGB1 as DAB2-dependent cargo but not TFR may involve association with DAB2 (By similarity). Promotes ubiquitination and subsequent degradation of EGFR, and thereby contributes to the down-regulation of EGFR-dependent signaling pathways (PubMed:16914641). In chromaffin cells, required for normal exocytosis of catecholamines (PubMed:18676989). Required for rapid replenishment of release-ready synaptic vesicles at presynaptic active zones (PubMed:23633571). Inhibits ARHGAP31 activity toward RAC1 (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) has multiple differences in the presence and absence of exons at its 3' end, compared to variant 1. These differences produce a unique 3' UTR and result in a shorter protein (isoform 3) with a distinct C-terminus, compared to isoform 1.