

Product datasheet for **MC201264**

Ist1 (NM_028018) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ist1 (NM_028018) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ist1
Synonyms:	2400003C14Rik; AW536298; mKIAA0174
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC017605 sequence for NM_028018
 GAGGGAGTCGCCATTTTGGATGCCGAGCGGCTCCTCGGAAGTCGGCTTCTTCCGTTTTACGTCCGGATC
 CCTCCAGGAGGAGCAGGACAACATGCTGGGCTCTGGGTTCAAAGCTGAGCGCTTACGAGTCAATTTGAGA
 TTAGTTATAAATCGTCTCAAACCTGTTGGAGAAAAAACAAGGAACTGGCTCAGAAGGCAAGGAAGGAGA
 TTGCTGACTACCTGGCCGCCGAAAGGATGAGCGAGCACGCATCCGTGTGGAGCACAATAACCGGGAGGA
 CTACCTCGTGGAGGCCATGGAGATCCTGGAGCTGATTGTGACCTGCTGCTGGCGCGCTTTGGCCTTATC
 CAGTCTATGAAGGAGCTAGATTCTGGTCTAGCTGAATCCGTGTCTACACTGATCTGGCTGCGCCTCGGC
 TTCAGTCAGAAGTGGCTGAGTTGAAAATAGTTGCCGATCAGCTCTGTGCCAAATACAGCAAGGAATATGG
 CAAGTTGTGCAGGACCAACCAGATCGGGACTGTGAATGATAGGCTAATGCACAAACTGAGCGTAGAAGCC
 CCACCCAAAATCCTAGTGGAGAGATACCTGATTGAAATTGCCAAGAATTACAATGTACCCTACGAACCTG
 ACTCTGTGGTCATGGCAGAAGCTCCTGTTGGGGTGGAGACAGATCTTATTGATGTTGGATTTACGGACGA
 TGTGAAGAAAGGTGGTCTGGAAGAGGAGGAGGGGGCGGGTTCACAGCCCCCGTTGGGGGACCTGATGGG
 ATTGTGCCATGCCCATGCCTATGCCATGCCATCTCAAATGCTCCCTTCGCATACCCACTGCCAAAGG
 GACCATCGGATTTCAAGTGGATTGCCAGTGGGACTTACCAGGCCCTTCTAACATTACCCACCTCAGAT
 ACCAGCAACTCCCCATCCTATGAATCTGTTGATGACATTAATGGTGATAAAACTGTTTCTTCTGCACAG
 ATTGTTGGACCAAGCCAGAAGCTCCTGCAAAGCCCCCTTCCAGACCTGTGGATAAATTACAACACCTTTG
 TACTGCCAGAGTTGCCATCGGTGCCAGACACACTTCCAATGCATCTGCTGGAGCCAGCACCTCAGCATC
 AGAAGACATAGACTTTGATGATCTTTCCCGGAGATTTGAGGAACTGAAAAAGAAAACATAGGTCTCTTAA
 ACCAGGCAGCATCCACATTTCTGGAAGTTGATAGTGAACAGTTCTCCGTGAACAGTGACTCTCCATGAAA
 TTCCGTTTCTCTGTTAACCGTCACTGAGCACTTCTCCTCGGGGCTCTGCTGCTTACCAATTGTGTT
 GCTTTCCACTTCTTCAAGTATTCTTCAAGTATCCTGAGAGACTAACAGCTGGAGACTCTAGCTGGAGCAG
 TTGGCTCCTATTGGCTGTGTTTGCCTGTCTGCTTCTGTGACGTGGATCCTTGGTCTTTCCCGGCCAT
 TCCATTTCCAGGGAGTGAGAAGTATTGTGGGTAGAGTTGCCAAAGATGGCTGGACCATGGAAGAGAGTAC
 CCTATGATGGGTTTCAACCTTGACTCGTAAATACTTCCCTCTGCATGGGGGTGATCGTAGAGAGAATCAA
 GGCTACCATGTGTTTTCTCATGAGTCAGAAGATGGCTCAGGAAGCCACTGTCACGTTTCTGGAGGCTGG
 GCCCTCTCATTGACATGTACACTACTCCTCGTGCAGGGCACTGTTCCACCTGGATCCAGTTGCAAAGTT
 TGGAAAAGTTCTTCTAGTTTTACTGGATTCTCAGGGAGCCCTCTGTGGCCTTTTCTTTATTTTGTAGTGC
 TGTTTTCTTTTAGGAAAGAACAGCACTGTGAAATTTGCTTTTCCCATAGCATGTTAGGAAGGAAGTA
 CAGGTCGTTACCTAAGCTAGCGTGGGCTCCAGTTGCCTTAATAGAAGTACTCAAGTCTCTTGGGTAGAG
 ATCTGGAAGCCTGCAGGAGAGGAGGGTACTTGTTTTTCATTGGAAAATTTTATGATTAAGGGACTCTTT
 ACAAACCTGGCATCTTAAGTTTTAGTGCCATGTCGCTGTAGTCTGCTGCTTCTCGGTGGATGAACCTCT
 TTATTATGGTAACTTCTGTGCTGCTTTGCCCTAGCCAAGGCTCTCCTTCCCAAGAGGTTAGCTTTGGC
 ATTGGAAGATGAGATTTTGTCTTACCTGTAGTATTTCTGTACATACCTGTTTCCAGCAACTTCAGTGTC
 ATGTTTTTGTATTTTGTGCTTATAGCTCTAGCTGCTAATAAAGATCCCATGCTGCTTTCAAAAAA
 AA

Restriction Sites: RsrII-NotI

ACCN: NM_028018

Insert Size: 1089 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: [BC017605](#), [AAH17605](#)

RefSeq Size: 2354 bp

RefSeq ORF: 1089 bp

Locus ID: 71955

UniProt ID: [Q9CX00](#)

Cytogenetics: 8 D3

Gene Summary: ESCRT-III-like protein involved in specific functions of the ESCRT machinery. Is required for efficient abscission during cytokinesis, but not for HIV-1 budding. The involvement in the MVB pathway is not established. Involved in recruiting VPS4A and/or VPS4B to the midbody of dividing cells. During late anaphase, involved in nuclear envelope reassembly and mitotic spindle disassembly together with the ESCRT-III complex: IST1 acts by mediating the recruitment of SPAST to the nuclear membrane, leading to microtubule severing. Regulates early endosomal tubulation together with the ESCRT-III complex by mediating the recruitment of SPAST.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longer isoform (1).