

Product datasheet for **MR205554**

Ist1 (NM_028018) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ist1 (NM_028018) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ist1
Synonyms:	2400003C14Rik; AW536298; mKIAA0174
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205554 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGCTCTGGGTTCAAAGCTGAGCGCTTACGAGTCAATTTGAGATTAGTTATAAATCGTCTCAAAC
TGTTGGAGAAAAAACGGAAGTGGCTCAGAAGCAAGGAAGGAGATTGCTGACTACCTGGCCCGCG
AAAGGATGAGCGAGCACGCATCCGTGTGGAGCACATAATCCGGGAGGACTACCTCGTGGAGGCCATGGAG
ATCCTGGAGCTGATTGTGACCTGCTGCTGGCGCCTTTGGCCTTATCCAGTCTATGAAGGAGCTAGATT
CTGGTCTAGCTGAATCCGTGTCTACACTGATCTGGGCTGCGCCTCGGCTTCAGTCAGAAGTGGCTGAGTT
GAAAATAGTTGCCGATCAGCTCTGTGCCAAATACAGCAAGGAATATGGCAAGTTGTGAGGACCAACCAG
ATCGGGACTGTGAATGATAGGCTAATGCACAACTGAGCGTAGAAGCCCCACCAAAATCCTAGTGGAGA
GATACCTGATTGAAATTGCCAAGAATTACAATGTACCCTACGAACCTGACTCTGTGGTATGGCAGAAGC
TCCTGTTGGGGTGGAGACAGATCTTATTGATGTTGGATTACGGACGATGTGAAGAAAGTGGTCTGGA
AGAGGAGGAGGGGGCGGGTTCACAGCCCCGTTGGGGACCTGATGGGATTGTGCCATGCCATGCCTA
TGCCCATGCCATCTCAAATGCTCCCTTCGCATACCCACTGCCAAAGGGACCATCGGATTCAGTGGATT
GCCAGTGGGACTTACCAGGCCTTTCCTAACATTACCCACCTCAGATACCAGCAACTCCCCATCCTAT
GAATCTGTTGATGACATTAATGGTGATAAACTGTTTCTCTGCACAGATTGTTGGACCAAGCCAGAAG
CTCCTGCAAAGCCCCCTCCAGACCTGTGGATAATTACAACACCTTTGTACTGCCAGAGTTGCCATCGGT
GCCAGACACACTTCCAATGCATCTGCTGGAGCCAGCACCTCAGCATCAGAAGACATAGACTTTGATGAT
CTTCCCGGAGATTTGAGGAAGTAAAAAGAAAAACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205554 protein sequence
Red=Cloning site Green=Tags(s)

MLGSGFKAERLRVNLRLVINRLKLEKKKTELAQKARKEIADYLAAGKDERARIRVEHI IREDYLVEAME
 ILELYCDLLLARFGLIQSMKELDSGLAESVSTLIWAAPRLQSEVAELKIVADQLCAKYSKEYGKLCRTNQ
 IGTVNDRLMHKLSVEAPPKILVERYLIEIAKNYNVPYEPDSVVMMAEAPVGVETDLIDVGFDDVKKGGPG
 RGGGGFTAPVGGPDGIVPMPMPMPSPNAPFAYPLPKGPSDFSGLPVGTYQAFPNIHPPQIPATPPSY
 ESVDDINGDKTVSSAQIVGPKPEAPAKPPSRPVDNYNTFVLELPVSPDTLPTASAGASTASEDIDFDD
 LSRRFEELKKKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028018

ORF Size: 1089 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_028018.2](#)

RefSeq Size: 2352 bp

RefSeq ORF: 1089 bp

Locus ID: 71955

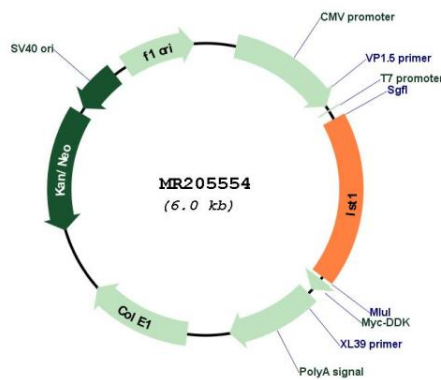
UniProt ID: [Q9CX00](#)

Cytogenetics: 8 D3

MW: 39.5 kDa

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]

Product images:



Circular map for MR205554