

Product datasheet for **SC114857**

IST1 (NM_014761) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IST1 (NM_014761) Human Untagged Clone
Tag:	Tag Free
Symbol:	IST1
Synonyms:	CHMP8; OLC1
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC114857 sequence for NM_014761 edited (data generated by NextGen Sequencing)

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ATGCTGGGCTCTGGATTTAAAGCTGAGCGCTTAAGAGTGAATTTGAGATTAGTCATAAAT
CGCCTTAAACTATTGGAGAAAAAGAAAACGGAAGCTGGCCAGAAAAGCAAGGAAGGAGATT
GCTGACTATCTGGCTGCTGGAAAGATGAACGAGCTCGGATCCGTGTGGAGCACATTATC
CGGGAAGACTACCTCGTGGAGGCCATGGAGATCCTGGAGCTGTACTGTGACCTGCTGCTG
GCTCGGTTTGGCCTTATCCAGTCTATGAAGGAAGTATCTGGTCTGGCTGAATCTGTG
TCTACATTGATCTGGGCTGCTCCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAAATAGTT
GCTGATCAGCTCTGTGCCAAGTATAGCAAGGAATATGGCAAGCTATGTAGGACCAACCAG
ATTGGAAGTGTGAATGACAGGCTAATGCACAAGCTGAGTGTGGAAGCCCCACCCAAAATC
CTGGTGGAGAGATACCTGATTGAAATTGCAAAGAATTACAACGTACCCTATGAACCTGAC
TCTGTGGTTCATGGCAGAAGCTCCTCCTGGGGTAGAGACAGATCTTATTGATGTTGGATTC
ACAGATGATGTGAAGAAAGGAGGCCCTGGAAGAGGAGGGAGTGGTGGCTTACAGCACCA
GTTGGTGGACCTGATGGAACGGTGCCAATGCCATGCCATGCCATGCCTATGCCATCT
GCAAATACGCCTTCTCATATCCACTGCCAAAGGGACCATCAGATTTCAATGGACTGCCA
ATGGGGACTTATCAGGCCTTTCCCAATATTCATCCACCTCAGATACCAGCAACTCCCCCA
TCGTATGAATCTATGACATTAATGCTGATAAGAATATCTTCTGCACAGATTGTTGGTC
CTGGACCAAGCCAGAAGCCTCTGCAAAGCTTCTTCCAGACCTGCAGATAACTATGACA
ACTTTGCTCCTACCAGAGTTGCCATCTGTGCCAGACACACTACCAACTGCATCTGCTGGTG
CCAGCACCTCAGCATCTGAAGACATTGACTTTGATGATCTTCCCGGAGGTTTGAAGAGC
TGA
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Clone variation with respect to NM_014761.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014761 unedited
 NGGGTGCAAAATTTGTATACGACTCATATAGGGCGGCCGCGATTCCGGCACCAGGCTGCGTT
 CACGGCAGGATTCGGTTAGGAGGAACAGCACAGCATGCTGGGCTCTGGATTTAAAGCTGA
 GCGCTTAAGAGTGAATTTGAGATTAGTCATAAAATCGCCTTAAACTATTGGAGAAAAAGAA
 AACGGAAGTGGCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAAGA
 TGAACGAGCTCGGATCCGTGTGGAGCACATTATCCGGGAAGACTACCTCGTGGAGGCCAT
 GGAGACTCTGGAGCTGTACTGTGACCTGCTGCTGGCTCGGTTTGGCCTTATCCAGTCTAT
 GAAGGAACTAGATTCTGGTCTGGCTGAATCTGTGTCTACATTGATCTGGGCTGCTCCTCG
 ACTCCAGTCAGAAGTGGCTGAGTTGAAAATAGTTGCTGATCAGCTCTGTGCCAAGTATAG
 CAAGGAATATGGCAAGCTATGTAGGACCAACCAGATTGGAAGTGAATGACAGGCTAAT
 GCACAAGCTGAGTGTGGAAGCCCCACCCAAAATCCTGGTGGAGAGATACCTGATTGAAAT
 TGCAAAGAATTACAACGTACCCTATGAACCTGACTCTGTGGTCATGGCAGAAGCTCCTCC
 TGGGGTAGAGACAGATCTTATTGATGTTGGATTACAGATGATGTGAAGAAAGGAGCCCC
 TGAAGAGGANGGAGTGGTGGCTTACAGCACCAGTTGGTGGACCTGATGGGACGGTGCC
 AATGCCATGCCATGCCATGCCTATGCCATCTGCAAATACGCCTTTCTCATATNCACT
 GCCAAAGGGACCATCAGATTTCAATGGACTGGCCATGGGGACTTTATCAGCCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014761 unedited
 TTGTACCGCGGCCGCATCTAAATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACAG
 GATCTTTAACTTTATTAGCAGCTACTGAGCTACAAAATACAAACCAACTGAAAACATTAA
 AAAAAGGCTGCCTGAAACAAGTATGTACAGGTATACTACACAGAAGCAAAAGCTGTATCA
 TCCAATCCCAAAGCCACCCCTGGGGGAAGGATGACCTTACCTATGGGCCAAAGGAGTAA
 CAGAAGTTATGACATAAGAGTCCCATCCATCCAGGAAAGCAGGGAACAACACAGCTGCA
 TGGGCACCAAAAATTTTTCTGAAATTAGTTTTAAAGGTTCCATGAATCAAAGTTTTCAA
 TGAACACAGGTACCCCTTTTTCTGTAGGCTTCCAGCTCACTACCCAAAAGACTTGAG
 TACTTCTATTAAGGCAGCTGGAACCCACCTAAGACTTGAATGGCACCTTGCCCTTCT
 CTGCCAGTAATGCAATCCAACACAATATGCTACAGGGAAAACAAAATTTCCACGGTGCCG
 CCCTCTGGTACAAGGAAACAGCAGCAAGCAAAAGGCCACAGAGGGCCTCCCTGAGAA
 TCCAGTACAACCTAAGCGAGGCCTTACCTGTCAAGACAACTTTGCAACGTGGATCCGGG
 TGGGAACAGGGCCCTGCAGCGAGGAGTACTGGTTTTGCCAATGAGAGGGCCACCTTCCA
 AGAACCCGAACATGGGCGTCCCAGCAGCTTTTCCCTTTCCCTTGTCTCCAGAAAGGGA
 AAAACCCCAAGGTGGCCTTGATTCTCATTACCAACATACCCCTGGAAGAGGGGGTCTGT
 TTTCACTTCTGGTATCTCACACAAGGTGGGATCCGTACAACGGCTTTTTCCCTGGTA
 AGACATTCTGGGGTGTGCCCCCTTCCACCCCTTTGAACCTCCGCGCGGAGCTG
 TCGTACCGCACCTTATCACCGCCACCCCTTTGTATTCCCACCCATACTCA

Restriction Sites:

NotI-NotI

ACCN:

NM_014761

Insert Size:

2310 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_014761.2](#), [NP_055576.2](#)

RefSeq Size: 2377 bp

RefSeq ORF: 1083 bp

Locus ID: 9798

UniProt ID: [P53990](#)

Cytogenetics: 16q22.2

Domains: DUF292

Gene Summary: This gene encodes a protein with MIT-interacting motifs that interacts with components of endosomal sorting complexes required for transport (ESCRT). ESCRT functions in vesicle budding, such as that which occurs during membrane abscission in cytokinesis. There is a pseudogene for this gene on chromosome 19. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2012] Transcript Variant: This variant (2) uses an alternate splice site in the coding region, which results in a frameshift, compared to variant 1. The encoded isoform (b, also known as hIST1b) has a distinct C-terminus and is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.