

## Product datasheet for **SC324384**

### 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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_014761.2  
 GAACCCTGAAGTCGGTGTCTGCTGCGTTACGGCAGGATTCGGTTAGGAGGAACAGCAC  
 GCATGCTGGGCTCTGGATTTAAAGCTGAGCGCTTAAGAGTGAATTTGAGATTAGTCATAA  
 ATCGCCTTAAACTATTGGAGAAAAAGAAAACGGAAGCTGGCCAGAAAGCAAGGAAGGAGA  
 TTGCTGACTATCTGGCTGCTGGGAAAGATGAACGAGCTCGGATCCGTGTGGAGCACATTA  
 TCCGGGAAGACTACCTCGTGGAGGCCATGGAGATCCTGGAGCTGTACTGTGACCTGCTGC  
 TGGCTCGGTTTGGCCTTATCCAGTCTATGAAGGAACTAGATTCTGGTCTGGCTGAATCTG  
 TGCTACATTGATCTGGGCTGCTCCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAATAG  
 TTGCTGATCAGCTCTGTGCCAAGTATAGCAAGGAATATGGCAAGCTATGTAGGACCAACC  
 AGATTGGAAGTGTGAATGACAGGCTAATGCACAAGCTGAGTGTGGAAGCCCCACCCAAAA  
 TCCTGGTGGAGAGATACCTGATTGAAATTGCAAAGAATTACAACGTACCCATGAACCTG  
 ACTCTGTGGTCATGGCAGAAGCTCCTCCTGGGGTAGAGACAGATCTTATTGATGTTGGAT  
 TCACAGATGATGTGAAGAAAGGAGGCCCTGGAAGAGGAGGGAGTGGTGGCTTCACAGCAC  
 CAGTTGGTGGACCTGATGGAACGGTGCCAATGCCATGCCATGCCATGCCATGCCATGCCAT  
 CTGCAAAATACGCCTTTCTCATATCCACTGCCAAAGGGACCATCAGATTTCAATGGACTGC  
 CAATGGGGACTTATCAGGCCTTTCCCAATATTCATCCACCTCAGATACCAGCAACTCCCC  
 CATCGTATGAATCTATGACATTAATGCTGATAAGAATATCTCTTCTGCACAGATTGTTGG  
 TCCTGGACCCAAGCCAGAAGCCTCTGCAAAGCTTCTTCCAGACCTGCAGATAACTATGA  
 CAACTTTGTCCTACCAGAGTTGCCATCTGTGCCAGACACACTACCAACTGCATCTGCTGG  
 TGCCAGCACCTCAGCATCTGAAGACATTGACTTTGATGATCTTTCCCGGAGGTTTGAAGA  
 GCTGAAAAAGAAAACATAGGCTCTTAAACCAGGCAACTTTCACGTTTTGGGAGTTGAGA  
 CTGAGCAATTTCTCCTTGAACAAAGAATCTCCATGAAATCTGTTTCATCTGTTAACCG  
 TCACTCAGCACAACTCCCTCTGGGCTCTTCTCCTGCTCCTCCAGATTCTGCTGCTTTC  
 CAGTTCTCTGTTGATCCTGAGACTAACAATTGGAGACTGAGGCCAGAGCAACTGGCTCCT  
 GGCAGCTGTGCTTGTCCGTTTCTGTCAGAGTGATCCCAGGTTTCTCCTGGCCCGTCCC  
 ATGGTCCCTCCACAGGAGTGTGAGAGGATGGGGGAAGCACTGTGGGAAGACCACCAAAGA  
 TGGCTGGACAGTGGGAGAGAGCACGTTGTGAAGCATCCCAGCCTCGTGTGAGGTTCCAG  
 ACTTAGAAACAGACCCCTCTGTACAGGGGGATTGTGGTGAAGTGAAGTCAAGGCCACCTT  
 GTGTGTTTTCTCACTCTCGAATGCAAGTGGGAGAGGGAAAATGACTCGGGACGCCATTGT  
 AACGGTTCCTGGAAGCTGGGCCCTCTCATTGGCATATACAGTACTCCTCGCTGCAGGGCA  
 CTGTCCCACCGGATCCAGTTGCAAAGTTGTCTTGACAGTTGAAGGCCTCGCTTAGTTG  
 TACTGGATTCTCAGGGAGCCCTCTGTGGCCTTTTGCTTTGCGTGTGTTCCCTGTACC  
 AGAGGGCGGCACCGTGGAAATCTGTTTTCCCTGTAGCATATTGTGTTGGATTGCATTAC  
 TGGCAGAGAAAGGACAAGGTGCCATTCAAGTCCTAGGGTGGGCTTCCAGCTGCCTTAATA  
 GAAGTACTCAAGTCTTTTGGGTAGTGAAGCTGGAAGCCTACAGGAAAAGAGGGGTACCTG  
 TTTTCAATTTGAAAACCTTTGATTCATGGAACCTTTAAAATAATCTCAGAAAAATTTTGG  
 TGCCCATGCAGCTGTAGTTGTTCACTGCTTCTGGATGGATGGGACTCTTATGTCATAA  
 CTTCTGTTACTCCTTTGGCCATAGCTAAGGTCATCCTTCCCCACAGGGGTGGCTTTGGG  
 ATTGGATGATACAGCTTTTGTCTGTGTAGTATACCTGTACATACTTGTTCAGGCAGC  
 CTTTCTTTAATGTTTTAGTTGTTTGTATTCTGTAGCTCAGTAGCTGCTAATAAAGTTA  
 AAGATCCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_014761

**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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_014761.2</a> , <a href="#">NP_055576.2</a>
<b>RefSeq Size:</b>	2377 bp
<b>RefSeq ORF:</b>	1083 bp
<b>Locus ID:</b>	9798
<b>UniProt ID:</b>	<a href="#">P53990</a>
<b>Cytogenetics:</b>	16q22.2
<b>Domains:</b>	DUF292
<b>Gene Summary:</b>	<p>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]</p> <p>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.</p>