

Product datasheet for **RG233926**

IST1 (NM_001270976) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IST1 (NM_001270976) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IST1
Synonyms: CHMP8; OLC1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233926 representing NM_001270976
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTTTTCAAGTTAAAAACAAAGGAGGAACAGCACAGCATGCTGGGCTCTGGATTTAAAGCTGAGCGCT
 TAAGAGTGAATTTGAGATTAGTCATAAATCGCCTTAAACTATTGGAGAAAAAGAAACGGAAGCTGGCCCA
 GAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAAGATGAACGAGCTCGGATCCGTGTGGAG
 CACATTATCCGGGAAGACTACCTCGTGGAGGCCATGGAGATCCTGGAGCTGTACTGTGACCTGCTGCTGG
 CTCGGTTTTGGCCTTATCCAGTCTATGAAGGAAGTACTGTTCTGGTCTGGCTGAATCTGTGTCTACATTGAT
 CTGGGCTGCTCCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAATAGTTGCTGATCAGCTCTGTGCCAAG
 TATAGCAAGGAATATGGCAAGCTATGTAGGACCAACCAGATTGGAAGTGAATGACAGGCTAATGCACA
 AGCTGAGTGTGGAAGCCCCACCCAAAATCCTGGTGGAGAGATACCTGATTGAAATGCAAAGAATTACAA
 CGTACCCTATGAACCTGACTCTGTGGTCATGGCAGAAGCTCCTCCTGGGGTAGAGACAGATCTTATTGAT
 GTTGGATTCACAGATGATGTGAAGAAAGGAGGCCCTGGAAGAGGAGGGAGTGGTGGCTTCACAGCACCAG
 TTGGTGGACCTGATGGAACGGTGCCAATGCCATGCCATGCCATGCCATGCCATCTGCAAATACGCC
 TTTCTCATATCCACTGCCAAAGGACCATCAGATTTCAATGGACTGCCAATGGGGACTTATCAGGCCCTTT
 CCCAATATTCACACCTCAGATACCAGCAACTCCCCATCGTATGAATCTGTAGATGACATTAATGCTG
 ATAAGAATATCTTTCTGCACAGATTGTTGGTCTGGACCAAGCCAGAAGCCTCTGCAAAGCTTCTCTTC
 CAGACCTGCAGATAACTATGACAACTTTGTCTACCAGAGTTGCCATCTGTGCCAGACACACTACCAACT
 GCATCTGCTGGTCCAGCACCTCAGCATCTGAAGACATTGACTTTGATGATCTTTCCCGAGGTTTGAAG
 AGCTGAAAAAGAAAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233926 representing NM_001270976
Red=Cloning site Green=Tags(s)

MVFKLKTKEEQHSMLGSGFKAERLRVNLRLVINRLKLEKKTTELAQKARKEIADYLAAGKDERARIRVE
 HIIREDYLV EAMEILELYCDLLLARFGLIQSMKELDSGLAESVSTLIWAAPRLQSEVAELKIVADQLCAK
 YSKEYGKLCRTNQIGTVNDRMLMHKLSVEAPPKILVERYLIEIAKYNVNPYEPDSVYMAEAPPGVETDLID
 VGF TDDVKKGGPGRGSGGFTAPVGGPDGTVPMPPMPMPMPMPMPMPMPMPMPMPMPMPMPMPMPMPMPMP
 PNIHPPQIPATPPSYESVDDINADKNISSAQIVGPGKPEASAKLPSRPADNYDNFVLPPELPSVPDTLPT
 ASAGASTASEDIDFDL SRRFEELKKT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001270976

ORF Size: 1137 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_001270976.1](#), [NP_001257905.1](#)

RefSeq Size: 4154 bp

RefSeq ORF: 1140 bp

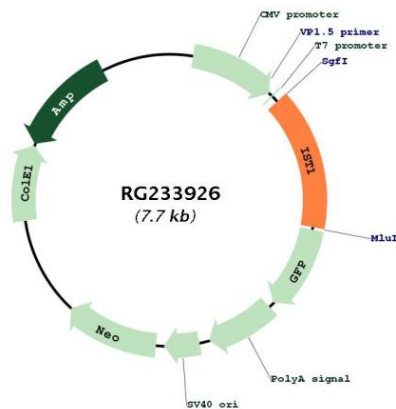
Locus ID: 9798

UniProt ID: [P53990](#)

Cytogenetics: 16q22.2

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]

Product images:



Circular map for RG233926