

## Product datasheet for **MG205554**

### Ist1 (NM\_028018) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ist1 (NM_028018) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ist1
Synonyms:	2400003C14Rik; AW536298; mKIAA0174
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205554 representing NM_028018 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGGCTCTGGGTTCAAAGCTGAGCGCTTACGAGTCAATTTGAGATTAGTTATAAATCGTCTCAAAC  
TGTTGGAGAAAAAACGGAAGTGGCTCAGAAGCAAGGAAGGAGATTGCTGACTACCTGGCCCGCG  
AAAGGATGAGCGAGCACGCATCCGTGTGGAGCACATAATCCGGGAGGACTACCTCGTGGAGGCCATGGAG  
ATCCTGGAGCTGTATTGTGACCTGCTGCTGGCGCCTTTGGCCTTATCCAGTCTATGAAGGAGCTAGATT  
CTGGTCTAGCTGAATCCGTGTCTACACTGATCTGGGCTGCGCCTCGGCTCAGTCAGAAGTGGCTGAGTT  
GAAAATAGTTGCCGATCAGCTCTGTGCCAAATACAGCAAGGAATATGGCAAGTTGTGCAGGACCAACCAG  
ATCGGGACTGTGAATGATAGGCTAATGCACAACTGAGCGTAGAAGCCCCACCAAAATCCTAGTGGAGA  
GATACCTGATTGAAATTGCCAAGAATTACAATGTACCCTACGAACCTGACTCTGTGGTCATGGCAGAAGC  
TCCTGTTGGGTGGAGACAGATCTTATTGATGTTGGATTACGGACGATGTGAAGAAAGTGGTCTGGA  
AGAGGAGGAGGGGGCGGTTACAGCCCCGTTGGGGACCTGATGGGATTGTGCCATGCCATGCCTA  
TGCCCATGCCATCTCAAATGCTCCCTTCGCATACCCACTGCCAAAGGGACCATCGGATTCAGTGGATT  
GCCAGTGGGACTTACCAGGCCTTTCCTAACATTACCCACCTCAGATACCAGCAACTCCCCATCCTAT  
GAATCTGTTGATGACATTAATGGTGATAAACTGTTTCTCTGCACAGATTGTTGGACCCAAGCCAGAAG  
CTCCTGCAAAGCCCCCTTCCAGACCTGTGGATAATTACAACACCTTTGTACTGCCAGAGTTGCCATCGGT  
GCCAGACACACTTCCAATGCATCTGCTGGAGCCAGCACCTCAGCATCAGAAGACATAGACTTTGATGAT  
CTTCCCGGAGATTTGAGGAAGTAAAAAGAAAAACA

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205554 representing NM\_028018  
 Red=Cloning site Green=Tags(s)

MLGSGFKAERLRVNLRLVINRLKLEKKKTELAQKARKEIADYLAAGKDERARIRVEHI IREDYLVEAME  
 ILELYCDLLLARFGLIQSMKELDSGLAESVSTLIWAAPRLQSEVAELKIVADQLCAKYSKEYGKLCRTNQ  
 IGTVNDRLMHKLSVEAPPKILVERYLIEIAKNYNVPYEPDSVVMMAEAPVGVETDLIDVGFDDVKKGGPG  
 RGGGGGFTAPVGGPDGIVPMPMPMPSPNAPFAYPLPKGPSDFSGLPVGTYQAFPNIHPPQIPATPPSY  
 ESVDDINGDKTVSSAQIVGPKPEAPAKPPSRPVDNYNTFVLPPLPSVPDTLPTASAGASTSASEDIDFDD  
 LSRRFEELKKKT

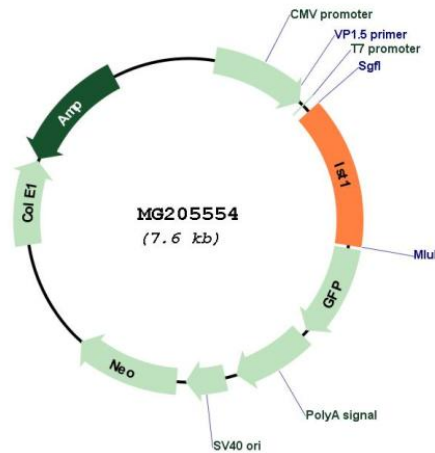
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_028018

<b>ORF Size:</b>	1086 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_028018.2</a>
<b>RefSeq Size:</b>	2304 bp
<b>RefSeq ORF:</b>	1089 bp
<b>Locus ID:</b>	71955
<b>UniProt ID:</b>	<a href="#">Q9CX00</a>
<b>Cytogenetics:</b>	8 D3
<b>Gene Summary:</b>	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]