

## Product datasheet for **MG211291**

### **Itih5 (NM\_172471) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Itih5 (NM_172471) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Itih5
Synonyms:	4631408O11Rik; 5430408M01Rik; E130106B02
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG211291 representing NM\_172471  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCCTGCTGCTAGGGCTGTGCTTGGGTTGCCCTCTTCTCAGAGTCCCAGGAAGAGGCAAGGAGTT  
 GGGACGACACCTCGGAGCAAGTCGTGCTCAGGGTCCCCAGGCAGCTCAGGCTGTTGCAAAGACTGAAAAC  
 CAAGCCCTTGATGGCAGAGTTTTTCGGTGAAGTCTACCATCATTTCCCGCTATGCCTTCACCACGGTGTCC  
 TGCAGGATGCTCAACAGAGCTTCTGAAGACCAGGAGGCTGAGTTCAGATGCAGATTCCAGAATCAGCTT  
 TCATCACCAACTTCACCATGCTTATAGGAGACAGCGTGTATCGGGGTGAAATTACACAGAAAAGATAAGAA  
 AAGCAGTGAGAGCGTAAAAGATAAAAAGGAACAGAACCTCAGACGATAATGAAGAAAACGGGAGTGACATG  
 TTCAAAGCGTCTTATGATTCCAGCAAGGACAAAGTCTTTCTTCTCAGTTATGAAGAGCTTCTGC  
 AGAGGAGGCTGGGAAATACGAGCATAGCATCAGCGTGCGCCCCAGCAGCTGGTGGGAGGCTGACTGT  
 GGAGGTGGACATCCTGGAGCGATCGGGCATCACATCCTTGAAGTGTGCCTCTCCACAACAGCAGGAAG  
 AAGGGTAGTGGGAAGGCAGAAGGTGATGTGGGTCTCCCTTCTACTCTCATCAACAAAATGAGACAT  
 TTGCCAAAGTCATCTTAAAGCTACTGTGGTCCAACAAGCTAAGATTGCCAGAATGGGATCTTGGGAGA  
 TTTTCATCGTTCGGTATGATGTCGAGAGAGAGCAGAACATTGGTGACATCCAGGTTCTGAATGGTTATTC  
 GTGCACTACTTTGCTCCTAAAACTCCCTCCTTACCCAAGAAGCTGGTCTTCGTGCTTGACATCAGCG  
 CTTCCATGGTGGGAGCGAAAACCTCCAGCAGACCAGGAGGCTCTCGTCACAATTCTCAATGACCTCCGACC  
 CCAGGATCGTTCATATCATTGGGTTCTCAAATCGGATTAATAATGTGGAAGGACCATTACTACCAGTG  
 ACTCCTGACAACATTAGGAATGGCAAGATCTACATGTACCATCTGTCAACCACTGGAGGCACAGACATCA  
 ATGGGGCCCTTCAGGCTGCCATCAAACCTCAACAACACTCGTGGCCAGAAATGACATTGAAGCCGAAG  
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 CCTCCTGACGTAGTAGAGCATGCCACCAAGACCCTGTTCCCTAACTACTTCAATGGCTCTGAGATAGTGA  
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 GGCTCAGCCAGAGATGGCGGGAAGGACCTAAACCACATTGAGCGACTTTGGAGCTACCTCACTGTGAAGG  
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 CTTAGCCTTGAACATATCATTTCCTACCCCTTCACTCCATGAAGCTGAGGAAGCCAGGGCTCCGCACA  
 AACCAGCTGGAGGACACCTATGGCATGTCTGCAGCTACAGGACCTGCGACCGTGGTGAGAACCTTCGAG  
 AGGCCGCAAGCAGCCAGAACCTGATCTCAAAAAACATATGACCCAAGAATTAATACTCTAAAACATC  
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 GGAGAGCCGGGGACATCCTACGTCTGGTCTCTGATCATCTGAACTCTGGTGTGACTGTGAATGGCGAGC  
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 CATCAACCGCCAGAGAGATCTTACCTGGAGATCACACCAAGCAGGGTCACTCTGGACGGTGGGACAGG  
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 CCAACATCACCGTGGTATCCAGGGCAACATTGCCTTTGTCATCCTCATCCACCTGTACAAAAACCCAGC  
 ACCCTTCCAGAGAGACCCTGGGCTTCTACATCGCCAACAGCAGAGGTCTCTCCGACAACCTGCCACGGA  
 CTGCTAGGTGAGTTCCTGAACCAGGATGCCAAACTTGTAGGAGCTCCTGAGGAATACGGCAAGAATCTTA  
 GTAACCAGCCATTTCTCGGGCAGAAGGGATGCCTGAGGCTATCCTGAAGGTGAAAGGGCGCCGAGTTCC  
 AGTGGTCTGAAACAAAGGAAGATTTACAACGGGCAAGCAGGTAGACTGCTGGTTTGACAGAAACAAT  
 GCTGCCAAGCTGATTGACGGTGTCTATAAGGACTACCTGGCATCTCATCCGTTTGACACAGAGAGTGCAC  
 TGGGCTGAGCAGCCAGGAAACCTGAGACCGACAGGCCCATGAGGAGAGTGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG211291 representing NM\_172471  
 Red=Cloning site Green=Tags(s)

MLLLLGLCLGLPLFSESQEEARSWDDTSEQVVLVPRQLRLLQRLKTKPLMAEFSVKSTIISRYAFTTVS  
 CRMLNRASEDQEAEFQMIPESAFITNFTMLIGDSVYRGEITQKDKKSSSESVKDKRNRTSDDNEENGSDM  
 FKASLVIPSKDKAAFFLSYEELLQRRLLGKYEHSISVRPQQLVGRLTVEVDILERSGITSLLEVLPLHNSRK  
 KGSKGAEQDVGPPSTLINQNETFAKVIFKPTVVQQAIAQNGILGDFIVRYDVEREQNIGDIQVLNGYF  
 VHYFAPKNLPPLPKNVVFVLDISASMGAKLQQTREALVTILNDLRPQDRFNIIGFSNRIMWKDHLLPV  
 TPDNIRNGKIYMYHLSPGGTDINGALQAAIKLLNNYVAQNDIEDRSVSLIIFLTDGKPTFGETNTLKIL  
 SNTKEATRQICIFTVIGIGDDVDFKLEKLSLENCGLTRRVHEEDKAGAQLIGFYDEIRTPLLSDIRIDY  
 PPDVVEHATKTLFPNYFNGSEIVIAGKMVDKQFDQLHVEVTASNSKFFVILKRDIPVEFRKMNDVSVTP  
 GSARDGGKDLNHIERLWSYLVKELLSSWRQSNSEQEKEQLRQKAQDLALNYHFLTPFTSMKLRKPLRT  
 NQLEDYTGMSAATGPATVVQNLREAGKQPEPDLKKTYPRIKISKTSVDGDPHFVVDFPLSKLTVCFNID  
 GEPGDILRLVSDHLNSGVTVNGELIGAPPNGHKKQRTYFRTITILINRPERSYLEITPSRVILDGDDR  
 LVLPCNQSVVVGSRGLEVSANANITVVIQGNIAFVILIHLYKNPAPFQRDHLGFYIANSRGLSDNCHG  
 LLGQFLNQDAKLVGAPEEYGNLSNQPFRAEGMPEAILKVKGRRVPVWQQRKIYNGQAQVDCWFDRNN  
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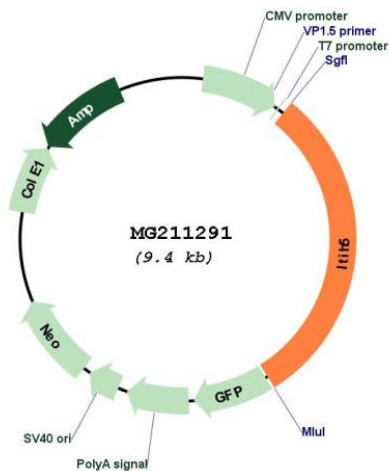
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_172471

ORF Size: 2856 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\\_172471.2](#), [NP\\_766059.1](#)

RefSeq Size: 7942 bp

RefSeq ORF: 2859 bp

Locus ID: 209378

UniProt ID: [Q8BJD1](#)

Cytogenetics: 2 A1

**Gene Summary:** May act as a tumor suppressor.[UniProtKB/Swiss-Prot Function]