

Product datasheet for **MG211152**

Itih1 (BC028814) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itih1 (BC028814) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Itih1
Synonyms:	Intin1; ITI-HC1; Itih-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211152 representing BC028814
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGGTGCCACAGGGCTCCGGGTGCTGCTGTGCTGCCGCTCCTCACTCTGCAGGCCAGGCTG
 CTTTGGGCTTGGCAACAGGCAGACCCAGGGCAGTGAGAAGCGACACGCTGTGGACACTTATTATCTTCA
 GTCAGTCAATGGTGTGCCATCAAGAGCTTGAAGTCAATTGCAAAGTCACCTCTCGCTTTGCCACTAC
 GTCATCACCAGCCAAGTGGTCAACAATGCTGATAAAGCCAGGAAAGTGGCTTTTGTGATGTGAAATCCCA
 AGACAGCCTTCATCAGTGACTTTGCCATAACATCAGATGGGAAGGCGTTCATTGGGGACATAAAGGACAA
 AGTGACTGCATGGAAGCAGTACCGAAGGCAGCCGTTTTAGGGGAGAGCGCTGGCCTTGCAGAGCCTCG
 GGCAGAAATATGGAGCAGTTCACCATCCATCACTGTTGGAGCCAGAGCAAGGCCACGTTCCGGCTCA
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 GGTACAGCATTTTGTGATCGATGTGGACATCTTTGAACCCAGGGGATCAGCAAGCTGGAGCCTCAGGCC
 TCCTTCCTCAGTGAGAACTGGCTGCTCAAACCATCAAGAAGTCTTTCTCAGGGAAAAAGGGTCATGTGC
 TCTTCCGCCCCACTGTGAGCCAGCAGCAGTCTGCCCCACATGTTCTACATCCTTGCTAAATGGAGAATT
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 GCCAATCTGCAAGCAGCTCAAGACTTTGTGAGGCGTTTTCTTTGGCTGGAGCCACAAACCTGAATGGAG
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 AATTCTTATCATGTTGACAGACGGAGAGCCCACTGAAGGGGAGACGGACCGTTCCAGATCCTCAAGAA
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 GGCGCATTGCTAACCAAACTGAACACCTTTAAGGCTGACGTTCCGGCTCGTGGGAAAAGCAAGAATT
 CAGGGCAACCTGCCTAGTGGACGAGGAAGAGATGAAGAACTGCTCCGAGAGCGTGGCCACGTGCTAGAG
 AATCATGTGGAGAGGCTCTGGGCTACCTCACGATCCAGGAGCTCCTGGTAAGCGGATGAAGACGGAAG
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 GACCTCTCTGACTATCAGAGGCCTGACAGACGAGGATGGGCTGGAGCCACCATTGACAAGCCCCTGGAG
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 AGCTGACAGTCAACCCAGGGTTGCAAAAAGACTACAGCAAGGACCCAGACATGGAGCAGAAGTGCCTTG
 CTGTTTGTCCACGACAATGGAGCTGGACTGATTGATGGTGTTCACACTGACTATGTCGCTCTGACATC
 TTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211152 representing BC028814
 Red=Cloning site Green=Tags(s)

MEGATGLRVLLCLLPLLTLQARPALGLATGRPRGSEKRHAVDTYYLQSVNGVSIKSLKVNCKVTSRFAHY
 VITSQVVNNADKAREVAFDVEIPKTAFLSDFAITSDGKAFIGDIKDKVTAWKQYRKA AVLGESAGLVRAS
 GRNMEQFTIHIITVGAQSKATFRLTYEEVLKRRLMQYDITIKVRPKQLVQHFEIDVDIFEPQGISKLDAQA
 SFLSEELAAQTIKKSFGKKGHVLFRPTVSQQQSCPTCSTLLNGEFKVTYDVNRDKLCDLLVANNYFTH
 FFAPKNLTNMSKNLVFVIDISGSMGQKVRQTK EALLKILEDMPVDNFDLVLF GSKVQSWKGS LVPVSN
 ANLQAAQDFVRRFSLAGATNLNGLLRGIEILNKAQGSHP ELS SPASILIMLTDGEPTEGETDRS QILKN
 VRNAIRGRFPLYNLGF GHDLDFSFLEVMSTENNGWAQRIYEDHDATQQLQGFYNQVANPLLTDVELQYPQ
 DAVLAL TQHRHKQYYDGSEIVVAGRIANHKLNTFKADVRARGEKQEF RATCLVDEEEMKLLRERGHVLE
 NHVERLWAYLTIQELLAKRMKTEGEERANLSSQVLKMSLDYHFVTP L TSLTIRGLTDEDGLEPTIDKPLE
 DSQPLEMVGPRRTFVLSAIQPSPTAHPIDSKLPLRVTGVDTDPHFIIYVPSKEDSLCFNINEEPGVILNL
 VQDPDTGFTVNGQLIGNKASSPQHESTYFGRLGISSPTSDFQLEVT PQNITLNPSSSGSMFSWRDQAVL
 QKDGVVVTINKRNLVVSVDGATFEIVLHRTWKGS AVHQDFLGFYVLD SFRMSARTKGLLGQFFSPLDF
 EVFDLHPGSDPTKTDATMVVKNRQLTVTRGLQKDYSKDP RHGAE VPCWFVHDNGAGLIDGVHTDYVVS DI
 F

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

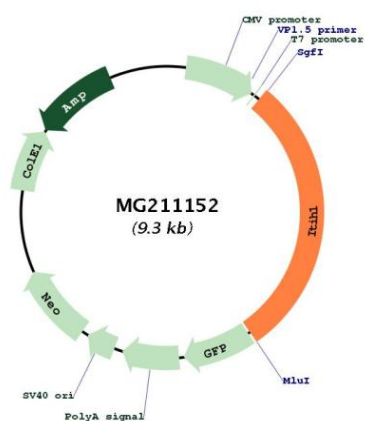
Cloning Scheme:



ACCN: BC028814

ORF Size:	2733 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:	<ol style="list-style-type: none">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:	BC028814.1
RefSeq Size:	2921 bp
RefSeq ORF:	2735 bp
Locus ID:	16424
Cytogenetics:	14 B
Gene Summary:	This gene encodes a heavy chain of inter-alpha trypsin inhibitor (IaI) family of plasma serine protease inhibitors. IaI proteins are protein-glycosaminoglycan-protein complexes comprised of two heavy chains and a light chain. The encoded protein covalently associates with the light chain via a chondroitin sulfate moiety. Intravenous administration of the encoded protein improved survival of mice after infection with Escherichia coli. This gene is located adjacent to two other IaI heavy chain genes. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing to generate mature protein. [provided by RefSeq, Oct 2015]

Product images:



Circular map for MG211152