OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR211152

Itih1 (BC028814) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itih1 (BC028814) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itih1
Synonyms:	Intin1; ITI-HC1; Itih-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

ORF Nucleotide Sequence:

>MR211152 representing BC028814
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGGTGCCACAGGGCTCCGGGTGCTGCTGTGCTTGCTGCCGCTCCTCACTCTGCAGGCCAGGCCTG
CTTTGGGCTTGGCAACAGGCAGACCCAGGGGCAGTGAGAAGCGACACGCTGTGGACACTTATTATCTTCA
GTCAGTCAATGGTGTGTCCATCAAGAGCTTGAAAGTCAATTGCAAAGTCACCTCTCGCTTTGCCCACTAC
GTCATCACCAGCCAAGTGGTCAACAATGCTGATAAAGCCAGGGAAGTGGCTTTTGATGTGGAAATCCCCA
AGACAGCCTTCATCAGTGACTTTGCCATAACATCAGATGGGAAGGCGTTCATTGGGGACATAAAGGACAA
AGTGACTGCATGGAAGCAGTACCGGAAGGCAGCCGTTTTAGGGGAGAGCGCTGGCCTTGTCAGAGCCTCG
GGCAGAAATATGGAGCAGTTCACCATCCATATCACTGTTGGAGCCCAGAGCAAGGCCACGTTCCGGCTCA
CCTATGAGGAGGTACTAAAGAGGAGACTGATGCAGTATGACATCACCATCAAAGTCAGACCCAAGCAGCT
GGTACAGCATTTTGAGATCGATGTGGACATCTTTGAACCCCAGGGGATCAGCAAGCTGGACGCTCAGGCC
TCCTTCCTCAGTGAGGAACTGGCTGCTCAAACCATCAAGAAGTCTTTCTCAGGGAAAAAGGGTCATGTGC
TCTTCCGCCCCACTGTGAGCCAGCAGCAGTCCTGCCCCACATGTTCTACATCCTTGCTAAATGGAGAATT
CAAGGTGACCTACGATGTCAATCGAGACAAGCTCTGTGACCTCCTGGTGGCCAACAACTACTTTACACAT
TTCTTTGCCCCCAAAAACCTGACCAACATGAGCAAGAACCTGGTTTTTGTGATTGACATCAGTGGCTCCA
TGGAAGGCCAGAAAGTGAGGCAGACAAAGGAGGCACTCCTTAAGATCCTGGAGGACATGAGGCCAGTAGA
CAACTTTGACCTGGTCCTCTTTGGCTCTAAAGTGCAATCATGGAAGGGCTCCCTGGTACCTGTGTCTAAT
GCCAATCTGCAAGCAGCTCAAGACTTTGTGAGGCGCTTTTCTTTGGCTGGAGCCACAAACCTGAATGGAG
GCTTGCTCCGAGGAATCGAGATCTTAAACAAAGCTCAAGGAAGCCACCCAGAACTCAGCAGCCCGGCCTC
AATTCTTATCATGTTGACAGACGGAGAGCCCACTGAAGGGGAGACGGACCGTTCCCAGATCCTCAAGAAT
GTACGCAACGCTATCCGGGGCAGGTTCCCGCTCTACAACCTCGGCTTTGGCCACGACCTGGACTTCAGCT
TCCTGGAGGTCATGTCCACTGAGAACAACGGATGGGCCCAGAGAATTTATGAGGACCATGATGCCACCCA
ACAGCTACAGGGTTTCTACAATCAAGTAGCCAATCCCCTGCTGACAGATGTGGAACTGCAGTACCCCCAG
GATGCTGTCTTGGCTCTAACCCAGCACCGACATAAACAGTACTATGACGGCTCGGAGATTGTGGTGGCTG
GGCGCATTGCTAACCACAAACTGAACACCTTTAAGGCTGACGTTCGGGCTCGTGGGGAAAAGCAAGAATT
CAGGGCAACCTGCCTAGTGGACGAGGAAGAGATGAAGAAACTGCTCCGAGAGCGTGGCCACGTGCTAGAG
AATCATGTGGAGAGGCTCTGGGCCTACCTCACGATCCAGGAGCTCCTGGCTAAGCGGATGAAGACGGAAG
GGGAGGAGAGGGCCAACCTGTCATCCCAGGTCCTGAAGATGTCACTGGACTATCATTTCGTAACGCCACT
GACCTCTCTGACTATCAGAGGCCTGACAGACGAGGATGGGCTGGAGCCCACCATTGACAAGCCCCTGGAG
GATTCTCAGCCCTTAGAGATGGTGGGACCCAGAAGAACGTTTGTGCTGTCAGCCATACAGCCATCTCCTA
CAGCCCACCCCATAGACTCAAAGTTGCCACTCCGTGTGACAGGTGTGGACACCGATCCCCACTTCATCAT
CTATGTGCCCTCAAAAGAGGATAGCTTGTGCTTCAACATCAATGAGGAACCTGGTGTGATCCTGAACCTA
GTACAGGACCCTGACACAGGCTTCACCGTGAATGGGCAGCTCATTGGGAACAAGGCCAGCAGCCCTGGGC
AACACGAGAGCACATACTTCGGGAGATTGGGAATCTCAAGTCCCACATCAGACTTTCAGCTGGAAGTGAC
TCCTCAGAACATTACACTGAACCCCAGCTCCAGCGGGTCCATGTTCTCCTGGAGGGACCAGGCTGTGCTG
CAGAAGGATGGGGTAGTGGTGACAATCAACAAGAAGAGGAACCTGGTGGTGTCTGTGGATGATGGGGCTA
CCTTTGAGATTGTCCTGCACAGAACATGGAAGGGGAGTGCAGTCCACCAGGACTTCCTGGGTTTCTATGT
GCTGGACAGCTTCCGGATGTCAGCCCGGACAAAGGGGCTACTGGGACAATTCTTCTCCCCACTGGATTTT
GAAGTATTTGACCTCCACCCAGGCTCTGACCCTACAAAGACAGATGCCACAATGGTGGTGAAGAATCGGC
AGCTGACAGTCACCCGAGGGTTGCAAAAAGACTACAGCAAGGACCCCAGACATGGAGCAGAAGTGCCTTG
CTGGTTTGTCCACGACAATGGAGCTGGACTGATTGATGGTGTTCACACTGACTATGTCGTCTCTGACATC
TTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Sequence:

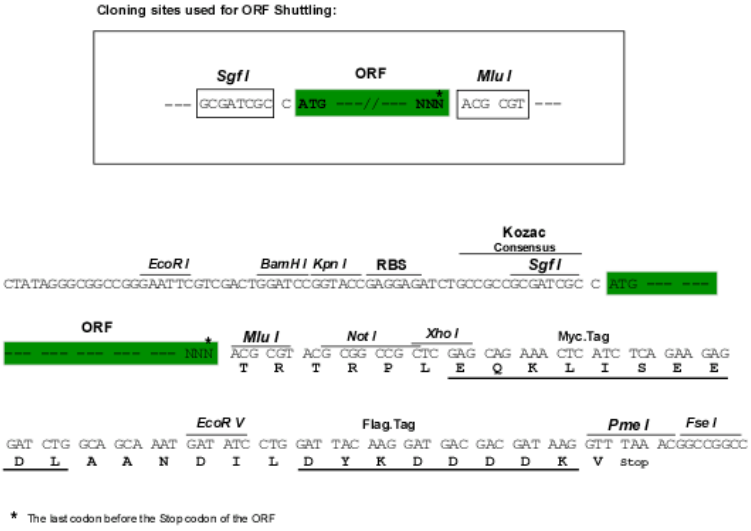
>MR211152 representing BC028814
Red=Cloning site Green=Tags(s)

MEGATGLRVLLCLLPLLTLQARPALGLATGRPRGSEKRHAVDTYYLQSVNGVSIKSLKVNCKVTSRFAHY
VITSQVVNNADKAREVAFDVEIPKTAFISDFAITSDGKAFIGDIKDKVTAWKQYRKAAVLGESAGLVRAS
GRNMEQFTIHITVGAQSKATFRLTYEEVLKRRLMQYDITIKVRPKQLVQHFEIDVDIFEPQGISKLDAQA
SFLSEELAAQTIKKSFSGKKGHVLFRPTVSQQQSCPTCSTSLLNGEFKVTYDVNRDKLCDLLVANNYFTH
FFAPKNLTNMSKNLVFVIDISGSMEGQKVRQTKEALLKILEDMRPVDNFDLVLFGSKVQSWKGSLVPVSN
ANLQAAQDFVRRFSLAGATNLNGGLLRGIEILNKAQGSHPELSSPASILIMLTDGEPTEGETDRSQILKN
VRNAIRGRFPLYNLGFGHDLDFSFLEVMSTENNGWAQRIYEDHDATQQLQGFYNQVANPLLTDVELQYPQ
DAVLALTQHRHKQYYDGSEIVVAGRIANHKLNTFKADVRARGEKQEFRATCLVDEEEMKKLLRERGHVLE
NHVERLWAYLTIQELLAKRMKTEGEERANLSSQVLKMSLDYHFVTPLTSLTIRGLTDEDGLEPTIDKPLE
DSQPLEMVGPRRTFVLSAIQPSPTAHPIDSKLPLRVTGVDTDPHFIIYVPSKEDSLCFNINEEPGVILNL
VQDPDTGFTVNGQLIGNKASSPGQHESTYFGRLGISSPTSDFQLEVTPQNITLNPSSSGSMFSWRDQAVL
QKDGVVVTINKKRNLVVSVDDGATFEIVLHRTWKGSAVHQDFLGFYVLDSFRMSARTKGLLGQFFSPLDF
EVFDLHPGSDPTKTDATMVVKNRQLTVTRGLQKDYSKDPRHGAEVPCWFVHDNGAGLIDGVHTDYVVSDI
F

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC028814

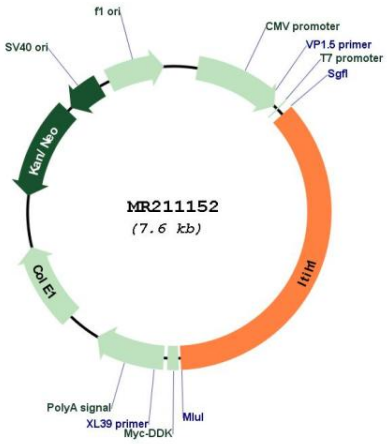
ORF Size: 2733 bp

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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:	BC028814.1
RefSeq Size:	2921 bp
RefSeq ORF:	2735 bp
Locus ID:	16424
Cytogenetics:	14 B
MW:	107 kDa
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]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Product images:



Circular map for MR211152

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US