

Product datasheet for **RR200534**

Itih3 (NM_017351) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itih3 (NM_017351) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itih3
Synonyms:	PAIHC3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RR200534 representing NM_017351
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTGACTCTGTGGTGGCCCTGCCTTGTCTTGGCTCTGCTCTGGCTTGGAGACCTCTGGCTTCCAA
GGAGTCCCTCCGGCTGCTTGGGAAACGGAGCCTTCCAGAAGGGTGGTGGATGGCATTGAGATCTACAG
CACCAAGATCAGCTGCAAGGTGACCTCCCGCTTGTCTACAATGTTGTACCACAAGGGCTGTCAACCGT
GCAGACAAGGCCAAGGAAGTTTCTTTGATGTGGAAGTCCCAAGACAGCCTTCATCACCAACTTACCT
TGACTATTGATGGTGTACCTACCTGGGAGTGTCAAGGAGAAGGAAGTTGCGCAGAAAACAATATGAAAA
GGCTGTGTCCAGGGCAAGACAGCCGTTTGGTCAAGGCCTCCGGGAGGAAGCTGGAGAAGTTACAGTG
TCTGTCAATGTGGCCGACGAGCAAGGTATCTTTGAGCTGACCTATGAAGAGCTGCTCAAGAGAAAACA
AGGGAAAGTACGAGATGTACCTAAGGTCCAGCCCAAGCAGCTCGTCAGACACTTTGAGATCGACGCACA
CATTTTTGAGCCACAGGGCATCAGCATGTTGGACGCCGATGCCTCATTTATCACTAATGACCTCCTGGGA
AGTGCCCTCACCAAGTCCTTCTCAGGAAAAAGGGGCATGTGTCTTCAAGCCCAGCTTAGACCAGCAGC
GCTCATGCCAACCTGTACGGACTCCCTTCTCAACGGGGACTTACCATCGTCTATGATGTGAACAGAGA
GTCTCCAGGAAATGTGCAGATAGTCAATGGCTACTTTCGTGCACTTCTTTCACCCCAAGGCCTCCAGTG
GTGCCAAGAACATAGCCTTTGTGATTGACGTCAGTGGCTCCATGTCTGGTCGAAAAATCCAGCAGACCA
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TGGTGTGACCACCTGGAAAGTACCTAGTCAAGGCCACACCTGCAAACCTCGAGGAGGCCAGGGCGTTT
GTGAAGAACATCCGTGATCGAAGCATGACCAACATCAATGACGGGCTGCTGAGGGGATTGAAATGCTGA
ACAAGCCCGAGAAGACCACCTTGTCCCGGAGAGGAGCAGCTCCATCCTCGTCATGTTGACAGATGGGGA
TGCTAATACTGGCGAGAGCAGACCTGAAAAGATCCAGGAAAACGTCCGGAACCCATCAGGGGCAAGTTC
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CTCACTATTGAGCAGTTACTGGAGAAACGCAAGAATGCCCGTGGGGATGAGAAGGAGAACATCACAGCAG
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C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200534 representing NM_017351
 Red=Cloning site Green=Tags(s)

MVTLWWPCLVLALLSGLETSGFPRSPRLRLGKRSLEPGVVDGIEIYSTKISCKVTSRFAHNVTTRAVNR
 ADKAKEVSFDVELPKTAFITNFTLTIDGVTPGVSVEKEVAQKQYEKAVSQGKTAGLVKASGRKLEKFTV
 SVNVAAGSKVIFELTYEELLKRNKGYEMYLKVPKQLVRHFEIDAHIFEPOGISMLDADASFITNDLLG
 SALTKSFGKKGHVSKPPLDQQRSCPTCTDSLNGDFTIVYDVNRESPGNVQIVNGYFVHFFAPQGLPV
 VPKNIAFVIDVSGSMSGRKIQQTREALLKILDDMKEEDYLNILFSTGVTTWKDHLVKATPANLEEARAF
 VKNIRDRSMTNINDGLLGGIEMLNKAREDLVPERSTSILVMLTDGDANTGESRPEKIQENVRNAIRGKF
 PLYNLGFGNNLNYNFLESLALENHGFARRIYEDSDASLQLQGFYEEVANPLLTNVELEYPENAILDLTRN
 SYPHFYDGEIVVAGRLVDRNVDNFKADYKGGALNDLTFTEVDMKEMDAALKEQGYIFGDYIERLWAY
 LTIEQLLEKRKNARGDEKENITAEALELSLKYHFVTPLTSMVVTKPEDNEDQTAIADKPGEEAISASTAY
 LTSQQSSHSPYYYVDGDPHFIIQVPGKNDTICFNIDEKPGTVLSLIQDPVTGIAVTGQIIGKEGNNASSR
 TGKTYFGKLGIANAWMDFRIEVTTEKIILGNGDALSTFSWLDTVTVTQTGLSVTINRKKNNMVSFEDGIS
 FVIVLHQVWKKHPVHQDFLGFYVVDSHRMSAQTHGLLGQFFQPFDFKVFVDPGSDPMKPDATMVVKSHR
 LTVTRGSQKDYRKDASVGTKVVCWFVHNNGEFIDGVHTDYIVPSLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

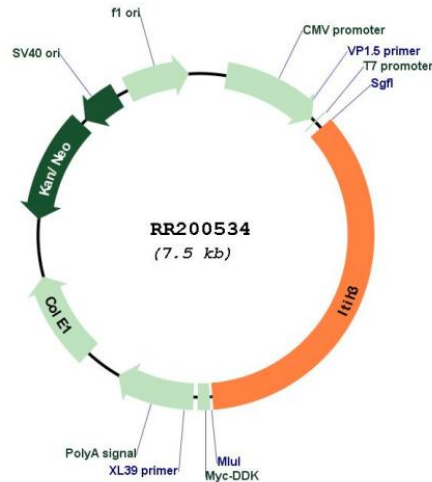
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017351

ORF Size: 2661 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_017351.1](#), [NP_059047.1](#)

RefSeq Size: 2783 bp

RefSeq ORF: 2664 bp

Locus ID: 50693

UniProt ID: [Q63416](#)

Cytogenetics: 16p16

MW: 99.1 kDa

Gene Summary: heavy chain peptide component of pre-alpha inhibitor, a serum protein formed by covalent linkage of the chondroitin sulfate chain of bikunin to the heavy chain carboxyl-terminal residue [RGD, Feb 2006]