

Product datasheet for **RR212987**

Irak1 (NM_001127555) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irak1 (NM_001127555) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irak1
Synonyms:	RGD1563841
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR212987 representing NM_001127555
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGGGGCCCGGGCCCGGGGAGCCTGTGGTCCCGGCCCCAGCATTCTTGTACGAGGTGCCTC
 CCTGGTTATGTGCCGTTTCTACAAAGTGATGGACGCCCTGGAGCCCGCGACTGGTGCCAGTTCGCGGC
 CTTGATCGTGCGCACCAGACAGAGCTGCGGCTGTGTGAGCGCTCCGAGCAGCGCACGGCCAGTGTCTG
 TGGCCCTGGATCAACCGCAACGCGCGTGTGGTGACCTCGTTCACATCCTCACGCACCTGCAGTGTCTG
 GTGCGCGGACATCATTACAGCTGGCACCTCCTGCCTCTGTTCTGCCCAAGCACCGGTGCCCAAG
 GCCCAGCAGCATCTGCAAGCTCTGAGACTGAGGACTGGAGCCCCGGAAATTGCAGTCTCTGCCTCC
 ACCTTCTCTCCCGAGCTTTCCAGGCTCCAGACCCATTCTGAGTCAGAGCTCCTCCAGTTCCACTCT
 CTGATTCCTCGGGCCACCCTACAATCTCAGCCCCCTCCTCCATCAAGCCAAGCCAGAGAGCCAGT
 GTCTGGCTCCAAGAGCTCGTCCCTCCCATTTTGTGGCCCTTCTGTGAGATTTCCAAGGCACTTGC
 AACTTCTCTGAAGAACTCAGATTGGAGAGGGTGGTTTTGGGTGTGTGTACCGAGCAGTAATGAGAAATA
 CTACATATGCTGTGAAGAGACTGAAGGAGGAGGCTGACCTAGAGTGGACTGTGGTGAACAGAGTTCCT
 AACAGAGGTGGAACAGCTATCAAGGTTTCGTACCCAAATATCGTGGACTTTGCTGGCTACTGTGCAGAG
 AGTGGCTTCTACTGCCTTGTATGGTTCCTGCCAATGGCTCCTTAGAGGATCAGTTACCTTCAGAC
 CCCAAGCTGCTCCCACTTTCTGGCTCAACGACTGGACATTTCTTGGGCACAGCCCGGCTATTCA
 GTTTTACATCAGGACAGCCCCAGCCTTATCCATGGAGACATCAAGATTCTAATGTGCTTCTGGATGAG
 AGACTGATGCCAAGCTGGGAGACTTTGGTCTGGCTCGTTTTCAGCCGCTTTCAGGGGCCAACCCAAG
 AGAGCAGTACTGTGGCCGGACTTGACAGTTTCGAGGTACCCTCGCTACCTGCCTGAGGATACATCAA
 GACAGGCCGCTGGCTGTGGACACCGATACCTTCAGCTTTGGGTGGTAATACTGGAGACCCTTGCTGGT
 CAGAGGGCTGTGAGGACACAAGGTGCAAAAACCAATATCTGAAAGACCTGATTGAAGATGAGGCTGAAG
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 CTGGCCCTGGCTCAACTAGCTTGTGCTGCATGCACCGTCCGGCCAAGAAGAGGCCACCCATGACCCAGG
 TATACAAGAGACTAGAAGGGCTCAGGCAGTACCTCCCTGGAAGCTAGAGGTTGCCGGCCATGGCTCTCC
 TTCCCCACAGGAGAACTCTACATGTCCACCCTGGCAGTGCCCAGAGTGGGGATGAACCATGGCAGCCT
 CTGGTAGTGACCACAAGAGCTCCAGCCAGGCTGCCAGCAACTCCAGAGAAGTCCAACAGCCAGTGG
 AGAGTGATGAGAGTGTTCTGGCCTCTCTGCTACCCTGCATTCTGGCACTTGACTCCAGATTCCCACCC
 AAGCCCTGTGCTTTCAGAGAGGCTAGCTGTACACAAGGAGGCACTACCAGAGAATCAAGTTTGAGGAGT
 GGCCAGGCTTCCAGCCTACGACCATGGAAGGCTCATCGATGGGCAGTTCATCCCTGCTGTGCATCAGAGC
 CACCACAGATCATCATCAACCCAGCCGACAGAAGATGGTACAAAAGCTGGCCCTGTATGAAGAGGGGT
 CTTGGATAGCCTGCAACTGCTGTGCATCAGGCTTTTCCAGGCTTGGATTTAGAACCTGAAAAGAGAAAG
 AGACCTGAAGAAAGTGATGAATTCCAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212987 representing NM_001127555
 Red=Cloning site Green=Tags(s)

MAGGPGPGPEVVPVGAQHFLYEVPWVMCRFYKVMDALEPADWCQFAALIVRDQTELRLCERSEQRTASVL
 WPWINRNARVADLVHILTHLQLLRARDIITAWHPPASVLPSTGAPRPSSISAGSETEDWSPRKLQSSAS
 TFLSPAFFPGSQTHSESELLQVPLSDSLGPPLQSSAPSSIKPSPESPVSGLQRRARPPFCWPFCEISQGTC
 NFSEELRIGEGGFVCYRAVMRNTTYAVKRLKEEADLEWTVVKQSFLTEVEQLSRFRHPNIVDFAGYCAE
 SGFYCLVYGFPLPNGSLEDQLHLQTQACSPLSWPQRLDILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDE
 RLMPKLGDFGLARFSRFAGANPSQSSTVARTCTVRGTLAYLPEEYIKTGR LAVDTDTFSFGVVILETLAG
 QRAVRTQGA KTKYLKDLIEDEAEVGVTLKSTQPTLWGMVATDAWTAPIAAQIYKHLDSRPGPCPPQLG
 LALAQLACCCMHRRAKKRPMTQVYKRLEGLQAVPPWKLEVAGHGSPSPQENSYMSTTGSQAQSGDEPWQP
 LVVTTTRAPAQAQQLQRSPNQPVESDESVPGLSATLHSHWLT PDSHPSPVSF REASCTQGTTRESSLRS
 GPGFQPTTMEGSSMGSSLLSSEPPQIIINPARQKMVQKLALYEEGVLDLQLLSSGFFPGLDLEPEKRR
 RPEESDEFQS

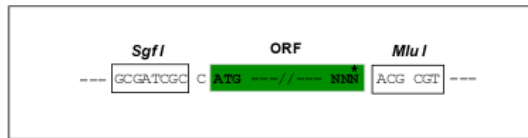
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3043_e11.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001127555

ORF Size: 2130 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001127555.1](#), [NP_001121027.1](#)

RefSeq Size: 2749 bp

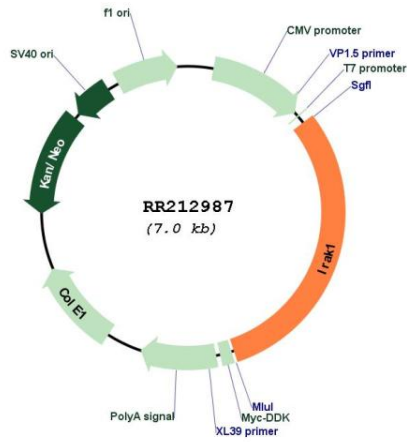
RefSeq ORF: 2133 bp

Locus ID: 363520

Cytogenetics: Xq37

MW: 77.9 kDa

Product images:



Circular map for RR212987