

Product datasheet for **RC204869**

IRAK (IRAK1) (NM_001025243) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRAK (IRAK1) (NM_001025243) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IRAK
Synonyms:	IRAK; pelle
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC204869 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGGGGGGCCGGGCGGGGAGCCCGAGCCCCGGCGCCAGCACTTCTTGACGAGGTGCCGC
 CCTGGGTGATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCGACTGGTGCCAGTTCGCCGC
 CCTGATCGTGCGCGACCAGACCGAGCTGCGGCTGTGCGAGCGCTCCGGGAGCGCACGGCCAGCGTCTG
 TGGCCTGGATCAACCGCAACGCCCGTGTGGCCGACCTCGTGCACATCCTCACGCACCTGCAGTCTCTCC
 GTGCGCGGGACATCATCACAGCCTGGCACCCCTCCCGCCCCGCTTCCGTCCCAGGACCAGTCCCGGAG
 GCCAGCAGCATCCCTGCACCCCGGAGGCCGAGGCTGGAGCCCCGGAAGTTCGCATCCTCAGCCTCC
 ACCTTCTCTCCCAGCTTTTCCAGGCTCCAGACCCATTAGGGCTGAGCTCGCCTGGTTCCAAGCC
 CTGCTTCCCTGTGGCCTCCACCGCCATCCTCAGCCCTTCTTCTACCAAGCCAGGCCAGAGAGCTCAGT
 GTCCTCTGCAGGGAGCCGCCCTCTCCGTTTTGCTGGCCCCCTGTGAGATTTCCCGGGCACCCAC
 AACTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGGGTGCGTGTACCGGGCGGTGATGAGGAACA
 CGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTGGACTGCAGTGAAGCAGAGTTCCT
 GACCGAGGTGGAGCAGCTGTCCAGGTTTCGTACCCAAACATTGTGGACTTTGCTGGCTACTGTGCTCAG
 AACGGTCTACTGCCTGGTGTACGGTTCCTGCCAACGGCTCCCTGGAGGACCGTCTCCACTGCCAGA
 CCCAGGCTGCCACCTCTCTCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCGGCAATTCA
 GTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCACACGCTCTTCTGGATGAG
 AGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCGTTTCCAGCCGTTTCCCGGGTCCAGCCCCAGCC
 AGAGCAGCATGGTGGCCCGGACACAGACAGTGCGGGGCACCCCTGGCCTACCTGCCCGAGGATACATCAA
 GACGGGAAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGGTGGTAGTGCTAGAGACCTTGGCTGGT
 CAGAGGGCTGTGAAGACGCACGGTGCCAGGACCAAGTATCTGGTGTACGAGAGGCTAGAGAAGCTGCAGG
 CAGTGGTGGCGGGGTGCCCGGGCATTGGAGGCCGCCAGCTGCATCCCCCTTCCCGCAGGAGAACTC
 CTACGTGTCCAGCACTGGCAGAGCCACAGTGGGGCTGCTCCATGGCAGCCCTGGCAGCGCCATCAGGA
 GCCAGTGGCCAGGACAGCAGAGCTGCAGAGAGGCCCAACCAGCCCGTGGAGAGTGCAGAGAGCCTAG
 GCGGCCTCTCTGCTGCCCTGCGCTCCTGGCACTTGAATCAAGCTGCCCTCTGGACCCAGCACCCCTCAG
 GGAGCCGGCTGTCTCAGGGGACACGGCAGGAGAATCGAGCTGGGGGAGTGGCCAGGATCCCGGCC
 ACAGCCGTGGAAGGACTGGCCCTTGGCAGCTCTGCATCATCGTGTGTCAGAGCCACCGCAGATTATCATCA
 ACCCTGCCCGACAGAAGATGGTCCAGAAGCTGGCCCTGTACGAGGATGGGGCCCTGGACAGCCTGCAGCT
 GCTGTCTGTCAGCTCCCTCCCAGGCTTGGGCTGGAACAGGACAGGCAGGGGCCGAAGAAAGTGATGAA
 TTTAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001025243.1](#), [NP_001020414.1](#)

RefSeq Size: 3352 bp

RefSeq ORF: 1902 bp

Locus ID: 3654

UniProt ID: [P51617](#)

Cytogenetics: Xq28

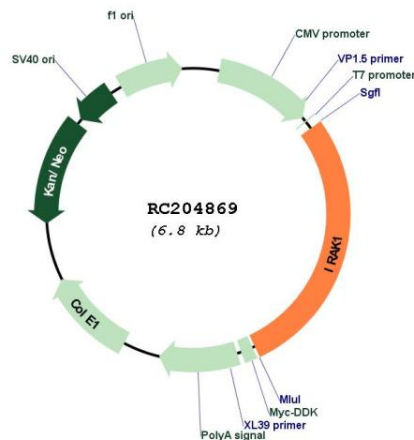
Protein Families: Druggable Genome, Protein Kinase, Transcription Factors

Protein Pathways: Apoptosis, Neurotrophin signaling pathway, Toll-like receptor signaling pathway

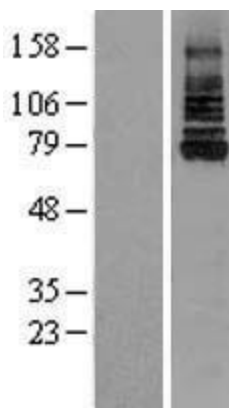
MW: 68 kDa

Gene Summary: This gene encodes the interleukin-1 receptor-associated kinase 1, one of two putative serine/threonine kinases that become associated with the interleukin-1 receptor (IL1R) upon stimulation. This gene is partially responsible for IL1-induced upregulation of the transcription factor NF-kappa B. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

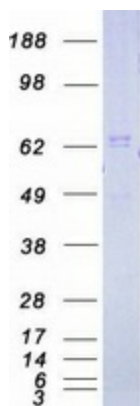
Product images:



Circular map for RC204869



Western blot validation of overexpression lysate (Cat# [LY422495]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204869 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IRAK1 protein (Cat# [TP304869]). The protein was produced from HEK293T cells transfected with IRAK1 cDNA clone (Cat# RC204869) using MegaTran 2.0 (Cat# [TT210002]).