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Product datasheet for SC117828

IKK gamma (IKBKG) (NM_003639) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKK gamma (IKBKG) (NM_003639) Human Untagged Clone
Tag:	Tag Free
Symbol:	IKK gamma
Synonyms:	AMCBX1; EDAID1; FIP-3; FIP3; Fip3p; IKK-gamma; IKKAP1; IKKG; IMD33; IP; IP1; IP2; IPD2; NEMO; ZC2HC9
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_003639 edited
GAATTCGGCACGAGCGGGGCCCTACCAGCGTTCACAGTCCGCCGCTCCCACCCTTCTCAC
GTCTGACGGACTCTGCTGACAGCCCTTGCCCTGTTGGATGAATAGGCACCTCTGGAAGAG
CCAACTGTGTGAGATGGTGCAGCCCAGTGGTGGCCCGGCAGCAGATCAGGACGTACTGGG
CGAAGAGTCTCCTCTGGGGAAGCCAGCCATGCTGCACCTGCCTTCAGAACAGGGCGCTCC
TGAGACCCTCCAGCGCTGCCTGGAGGAGAATCAAGAGCTCCGAGATGCCATCCGGCAGAG
CAACCAGATTCTGCGGGAGCGCTGCGAGGAGCTTCTGCATTTCCAAGCCAGCCAGAGGGA
GGAGAAGGAGTTCCTCATGTGCAAGTTCCAGGAGGCCAGGAAACTGGTGGAGAGACTCGG
CCTGGAGAAGCTCGATCTGAAGAGGCAGAAGGAGCAGGCTCTGCGGGAGGTGGAGCACCT
GAAGAGATGCCAGCAGCAGATGGCTGAGGACAAGGCCTCTGTGAAAGCCCAGGTGACGTC
CTTGCTCGGGGAGCTGCAGGAGAGCCAGAGTCGCTTGGAGGCTGCCACTAAGGAATGCCA
GGCTCTGGAGGGTCGGGCCCGGGCGGCCAGCGAGCAGGCGCGGCAGCTGGAGAGTGAGCG
CGAGGCGCTGCAGCAGCAGCACAGCGTGCAGGTGGACCAGCTGCGCATGCAGGGCCAGAG
CGTGGAGGCCGCGCTCCGCATGGAGCGCCAGGCCGCCTCGGAGGAGAAGAGGAAGCTGGC
CCAGTTGCAGGTGGCCTATCACCAGCTCTTCCAAGAATACGACAACCACATCAAGAGCAG
CGTGGTGGGCAGTGAGCGGAAGCGAGGAATGCAGCTGGAAGATCTCAAACAGCAGCTCCA
GCAGGCCGAGGAGGCCCTGGTGGCCAAACAGGAGGTGATCGATAAGCTGAAGGAGGAGGC
CGAGCAGCACAAGATTGTGATGGAGACCGTTCCGGTGCTGAAGGCCCAGGCGGATATCTA
CAAGGCGGACTTCCAGGCTGAGAGGCAGGCCCGGGAGAAGCTGGCCGAGAAGAAGGAGCT
CCTGCAGGAGCAGCTGGAGCAGCTGCAGAGGGAGTACAGCAAACTGAAGGCCAGCTGTCA
GGAGTCGGCCAGGATCGAGGACATGAGGAAGCGGCATGTCGAGGTCTCCCAGGCCCCCTT
GCCCCCCGCCCCTGCCTACCTCTCCTCTCCCCTGGCCCTGCCCAGCCAGAGGAGGAGCCC
CCCCGAGGAGCCACCTGACTTCTGCTGTCCCAAGTGCCAGTATCAGGCCCCTGATATGGA
CACCCTGCAGATACATGTCATGGAGTGCATTGAGTAGGGCCGGCCAGTGCAAGGCCACTG
CCTGCCGAGGACGTGCCCGGGACCGTGCAGTCTGCGCTTTCCTCTCCCGCCTGCCTAGCC
CAGGATGAAGGGCTGGGTGGCCACAACTGGGATGCCACCTGGAGCCCCACCCAGGAGCTG
GCCGCGGCACCTTACGCTTCAGCTGTTGATCCGCTGGTCCCCTCTTTTGGGGTAGATGCG
GCCCCGATCAGGCCTGACTCGCTGCTCTTTTTGTTCCCTTCTGTCTGCTCGAACCACTTG
CCTCGGGCTAATCCCTCCCTCTTCCTCCACCCGGCACTGGGGAAGTCAAGAATGGGGCCT
GGGGCTCTCAGGGAGAACTGCTTCCCCTGGCAGAGCTGGGTGGCAGCTCTTCCTCCCACC
GGACACCGACCCGCCCGCTGCTGTGCCCTGGGAGTGCTGCCCTCTTACCATGCACACGGG
TGCTCTCCTTTTGGGCTGCATGCTATTCCATTTTGCAGCCAGACCGATGTGTATTTAACC
AGTCACTATTGATGGACATTTGGGTTGTTTCCCATCTTTTTGTTACCATAAATAATGGCA
TAGTAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003639 unedited
TCAGATTTTGTAATACGACTTCACTATAGGGCGGCCGCGAATTCGCACGAGCGGGNGCCC
TACCAGCGTTCACAGTCCGCCGCTCCCACCCTTCTCACGTCTGACGGACTCTGCTGACAG
CCCTTGCCCTGTTGGATGAATAGGCACCTCTGGAAGAGCCAACTGTGTGAGATGGTGCAG
CCCAGTGGTGGCCCGGCAGCAGATCAGGACGTACTGGGCGAAGAGTCTCCTCTGGGGAAG
CCAGCCATGCTGCACCTGCCTTCAGAACAGGGCGCTCCTGAGACCCTCCAGCGCTGCCTG
GAGGAGAATCAAGAGCTCCGAGATGCCATCCGGCAGAGCAACCAGATTCTGCGGGAGCGC
TGCGAGGAGCTTCTGCATTTCCAAGCCAGCCAGAGGGAGGAGAAGGAGTTCCTCATGTGC
AAGTTCCAGGAGGCCAGGAAACTGGTGGAGAGACTCGGCCTGGAGAAGCTCGATCTGAAG
AGGCAGAAGGAGCAGGCTCTGCGGGAGGTGGAGCACCTGAAGAGATGCCAGCAGCAGATG
GCTGAGGACAAGGCCTCTGTGAAAGCCCAGGTGACGTCCTTGCTCGGGGAGCTGCAGGAG
AGCCAGAGTCGCTTGGAGGCTGCCACTAAGGAATGCCAGGCTCTGGAGGGTCAGGCCCGG
GCGGCCAGCGAGCAGGCGCGGCAGCTGGAGAGTGAGCGCGAGGCGCTGCAGCAGCAGCAC
AGCGTGCAGGTGGACCAGCTGCGCATGCAGGGCCAGAGCGTGGAGGCCGCGCTCCGCATG
GAGCGCCAGCCCCGCCTCGAGGAGAAAGAGGAGCTGGGCCAGTTGCAGGTGGCCTATCAC
CAGCTCTTTCCANNGATACGACACCACATCAGAGCANCGTGGTGGGCAGTGAGCGGAACC
GAGNATGCANCTGGGAGATCTCAACAGCAGCTCAGCAGACCGAGGAGGCCTGGTGGCCAA
CAGNAGTGATCGATAGCTGAAG
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_003639 unedited
CATAAGCCTCATGGCGATCGGCATCTTCCCATGACCAGGAAAGCACTGGGGAGGGTCACA
GGGCTGCCACCCGGGTTCTGTTCAGGAAAAGCTATGACCGCGGCCGCAATCTAAAGTCGA
GTTTTTTTTTTTTTTTTTTACTATGCCATTATTTATGGTAACAAAAAATGGGAAACAACC
CAAATGTCCATCAATAGTGACTGGTTAAATACACATCGGTCTGGCTGCAAAATGGAATAG
CATGCAGCCCAAAAGGAGAGCACCCGTGTGCATGGTAAGAGGGCAGCACTCCCAGGGCAC
AGCAGCGGGCGGGTCGGTGTCCGGTGGGAAGAATATCTGCCACCCAGCTCTGCCAGGGGA
AGCAGTTCTCCCTGAGAGCCCCAGGCCCCATTCTTGACTTCCCCAGTGCCGGGTGGAAGA
AGAGGGAGGGATTAGCCCGAGGCATGTGGTTCGAGCATACAGAAGGGAACAAAAAGAGCA
GCGAGTCAGGCCTGATCGGGGCCGCCTCTACCCCAAAAGAGGGGACCAGCGGATCAACAG
CTGAAGCGTAAGGTGCCGCGGCCAGCTCCTGGGTGGGGCTCCAGGTGGCATCCCAGTTGT
GGCCACCCAGCCCTTCATCCTGGGCTAGGCAGGCGGGAGAGGAAAGCGCAAACTGCACGG
TCCCGGGCACGTCCTCGGCAGGCAGTGGCCTTGCACTGGCCGGCCCTACTCAATGCACTC
CATGACATGTTTCTGCAGGGTGTCCATATCAGGGGCCTGATACTGGCACTTGGGACAACA
AATGTCATGTGGCTCCTCGGGGGGGCTCCTCCTCTGGCTGGCCNNGGGCCAGGGGAAAAG
AAAATGTAACCCGGGGCCGGGGGGCAAAGGGGCCCTGGAAAACCTTNNATTGCCCCTTTC
CCATGTCCCTGATA
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Restriction Sites: NotI-NotI

ACCN: NM_003639

Insert Size: 2000 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_003639.2, NP_003630.1
RefSeq Size:	2121 bp
RefSeq ORF:	1260 bp
Locus ID:	8517
UniProt ID:	Q9Y6K9
Cytogenetics:	Xq28
Domains:	zf-C2H2
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, MAPK signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Primary immunodeficiency, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway
Gene Summary:	This gene encodes the regulatory subunit of the inhibitor of kappaB kinase (IKK) complex, which activates NF-kappaB resulting in activation of genes involved in inflammation, immunity, cell survival, and other pathways. Mutations in this gene result in incontinentia pigmenti, hypohidrotic ectodermal dysplasia, and several other types of immunodeficiencies. A pseudogene highly similar to this locus is located in an adjacent region of the X chromosome. [provided by RefSeq, Mar 2016] Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 3 and 5 encode the same isoform (a).