

## Product datasheet for **SC316746**

### IKK gamma (IKBKG) (NM\_001099856) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IKK gamma (IKBKG) (NM_001099856) 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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC316746 representing NM\_001099856.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCCCTTGATCCAGGTGGGAAACTAAGGCCAGAGAAGTGAAGACCCCGAGACTATCAATCCC
AGTCTCTTCCCCTCACTCCCTGTGAAGCTCTCCAGCATCATCGAGTCCCATCAGGTGGGAAAGATGC
TGTTCCAGGCGCACACTAGTCTACAAGGCCAGAGCTTTCTGGAAGGGGGACCCTTGCCCTGTTGGATG
AATAGGCACCTCTGGAAGAGCCAACTGTGTGAGATGGTGACGCCAGTGGTGGCCCGCAGCAGATCAG
GACGACTGGGCGAAGAGTCTCCTCTGGGGAAGCCAGCCATGCTGCACCTGCCTTCAAGACAGGGCGCT
CCTGAGACCTCCAGCGCTGCCTGGAGGAGAATCAAGAGCTCCGAGATGCCATCCGGCAGAGCAACCAG
ATTCTGCGGGAGCGCTGCGAGGAGCTTCTGCATTTCAAGCCAGCCAGAGGGAGGAGAAGGAGTTCTC
ATGTGCAAGTTCCAGGAGGCCAGAACTGGTGGAGAGACTCGGCCTGGAGAAGCTCGATCTGAAGAGG
CAGAAGGAGCAGGCTCTCGGGAGGTGGAGCACCTGAAGAGATGCCAGCAGCAGATGGCTGAGGACAAG
GCCTCTGTGAAAGCCAGGTGACGTCCTTGCTCGGGGAGCTGCAGGAGAGCCAGAGTCGCTTGGAGGCT
GCCACTAAGGAATGCCAGGCTCTGGAGGGTCCGGGCCCGGGCGGCCAGCGAGCAGGCGCGCAGCTGGAG
AGTGAGCGCGAGGCGCTGCAGCAGCAGCACAGCGTGCAGGTGGACCAGCTGCGCATGCAGGGCCAGAGC
GTGGAGGCCCGCGCTCCGCATGGAGCGCCAGGCCCTCGGAGGAGAAGAGGAAGCTGGCCAGTTGCAG
GTGGCCTATCACCAGCTCTTCCAAGAATACGACAACCACATCAAGAGCAGCGTGGTGGGCAGTGAGCGG
AAGCGAGGAATGCAGCTGGAAGATCTCAAACAGCAGCTCCAGCAGGCCGAGGAGGCCCTGGTGGCCAAA
CAGGAGGTGATCGATAAGCTGAAGGAGGAGGCCAGCAGCACAAGATTGTGATGGAGACCGTTCCGGTG
CTGAAGGCCCAGGCGGATATCTACAAGGCGGACTTCCAGGCTGAGAGGCAGGCCCGGGAGAAGCTGGCC
GAGAAGAAGGAGCTCCTGCAGGAGCAGCTGGAGCAGCTGCAGAGGAGTACAGCAAAGTGAAGGCCAGC
TGTGAGGAGTCGGCCAGGATCGAGGACATGAGGAAGCGGCATGTGAGGTTCTCCAGGCCCTTGCCC
CCCGCCCTGCCTACCTCTCTCTCCCTGGCCCTGCCAGCCAGAGGAGGAGCCCCCGAGGAGCCA
CCTGACTTCTGTGTCCTCAAGTGCCAGTATCAGGCCCTGATATGGACACCCTGCAGATACATGTCATG
GAGTGCATTGAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001099856

**Insert Size:** 1464 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001099856.4</a>
<b>RefSeq Size:</b>	2093 bp
<b>RefSeq ORF:</b>	1464 bp
<b>Locus ID:</b>	8517
<b>UniProt ID:</b>	<a href="#">Q9Y6K9</a>
<b>Cytogenetics:</b>	Xq28
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	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
<b>MW:</b>	55.8 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate promoter and initiates translation from an alternate in-frame upstream start codon compared to variant 1. The resulting isoform (b) has a longer N-terminus compared to isoform a.</p>