

Product datasheet for **RG226825**

IKK gamma (IKBKG) (NM_001145255) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKK gamma (IKBKG) (NM_001145255) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IKBKG
Synonyms:	AMCBX1; EDAID1; FIP-3; FIP3; Fip3p; IKK-gamma; IKKAP1; IKKG; IMD33; IP; IP1; IP2; IPD2; NEMO; ZC2HC9
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RG226825 representing NM_001145255 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATAGGCACCTCTGGAAGAGCCAAGTGTGTGAGATGGTGCAGCCAGTGGTGGCCCGGCAGCAGATC
AGGACGTACTGGGCGAAGAGTCTCCTCTGGGAAGCCAGCCATGCTGCACCTGCCTTCAGAACAGGGCGC
TCCTGAGACCTCCAGCGCTGCCTGGAGGAGAATCAAGAGCTCCGAGATGCCATCCGGCAGAGCAACCAG
ATTCTGCGGGAGCGCTGCGAGGAGCTTCTGCATTTCCAAGCCAGCCAGAGGGAGGAGAAGGAGTTCTCA
TGTGCAAGTTCCAGGAGGCCAGAACTGGTGGAGAGACTCGGCCTGGAGAAGCTCGATCTGAAGAGGCA
GAAGGAGCAGGCTCTGCGGGAGGTGGAGCACCTGAAGAGATGCCAGCAGCAGATGGCTGAGGACAAGGCC
TCTGTGAAAGCCAGGTGACGTCCTTGCTCGGGAGCTGCAGGAGAGCCAGAGTCGCTTGAGGGTGCCA
CTAAGGAATGCCAGGCTCTGGAGGGTCGGAGGAAGCTGGCCAGTTGCAGGTGGCCTATCACCAGCTCTT
CCAAGAATACGACAACCACATCAAGAGCAGCGTGGTGGGCAGTGAGCGGAAGCGAGCGGATATCTACAAG
GCGGACTTCCAGGCTGAGAGGCAGGCCCGGAGAAGCTGGCCGAGAAGAAGGAGCTCCTGCAGGAGCAGC
TGGAGCAGCTGCAGAGGGAGTACAGCAAAGTGAAGCCAGCTGTCAGGAGTCGGCCAGGATCGAGGACAT
GAGGAAGCGGCATGTCGAGGTCTCCAGGCCCTTCCCCCGCCCTGCCTACCTCTCCTCTCCCCTG
GCCCTGCCAGCCAGAGGAGAGCCCCCGAGGAGCCACCTGACTTCTGCTGTCCCAAGTGCCAGTATC
AGGCCCTGATATGGACACCCTGCAGATACATGTCATGGAGTGCATTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG226825 representing NM_001145255
Red=Cloning site Green=Tags(s)

MNRHLWKSQ LCEMVQPSGGPAADQDVLGEE SPLGKPAMLHLPSEQGAPETLQRCL EENQELRDAIRQSNQ
 ILRERCEELLHFQASQREEKEFLMCKFQEARKLVERLGLEKLDLKRQEQALREVEHLKRCQQMAEDKA
 SVKAQVTSLLGELQESQSRLEAATKECQALEGRRKLAQLQVAYHQLFQEYDNHIKSSVVGSEKRAIYK
 ADFQAERQAREKLA EKKELLQEQLQLQREYSK LKASCQESARIEDMRKRHVEVSQAPLPPAPAYLSSPL
 ALPSQRRSPPEPPDFCCPKCQYQAPMDTLQIHVMECIE

TRTRPLE - GFP Tag - V

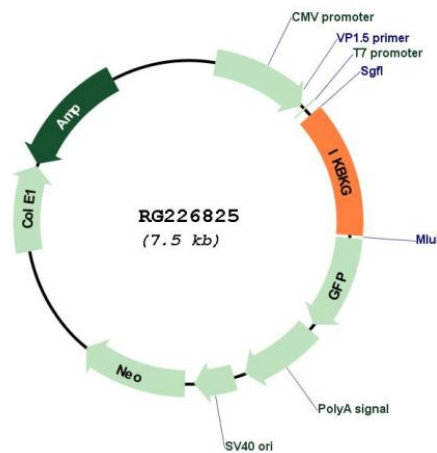
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001145255

ORF Size: 960 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:	<ol style="list-style-type: none">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_001145255.4
RefSeq Size:	1982 bp
RefSeq ORF:	963 bp
Locus ID:	8517
UniProt ID:	Q9Y6K9
Cytogenetics:	Xq28
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]