

Product datasheet for RC240037

HIPK3 (NM_001278163) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HIPK3 (NM_001278163) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HIPK3
Synonyms:	DYRK6; FIST3; PKY; YAK1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240037 representing NM_001278163 Red=Cloning site Blue=ORF Green=Tags(s)

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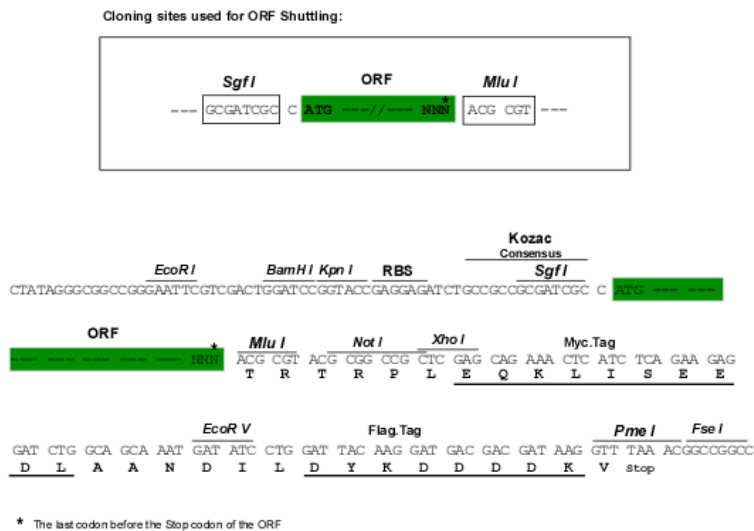
Protein Sequence: >RC240037 representing NM_001278163
 Red=Cloning site Green=Tags(s)

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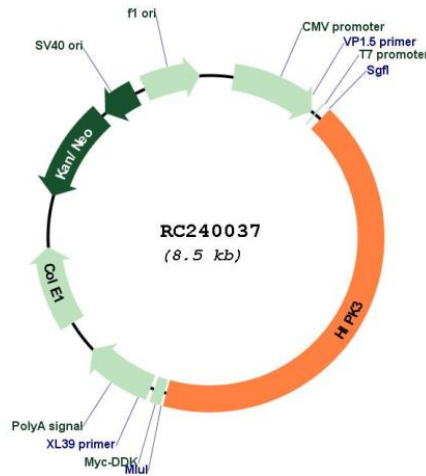
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Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278163

ORF Size: 3582 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:

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_001278163.1](#), [NP_001265092.1](#)

RefSeq Size: 7134 bp

RefSeq ORF: 3585 bp

Locus ID: 10114

UniProt ID: [Q9H422](#)

Cytogenetics: 11p13

Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
MW:	131.7 kDa
Gene Summary:	Serine/threonine-protein kinase involved in transcription regulation, apoptosis and steroidogenic gene expression. Phosphorylates JUN and RUNX2. Seems to negatively regulate apoptosis by promoting FADD phosphorylation. Enhances androgen receptor-mediated transcription. May act as a transcriptional corepressor for NK homeodomain transcription factors. The phosphorylation of NR5A1 activates SF1 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. In osteoblasts, supports transcription activation: phosphorylates RUNX2 that synergizes with SPEN/MINT to enhance FGFR2-mediated activation of the osteocalcin FGF-responsive element (OCFRE).[UniProtKB/Swiss-Prot Function]