

## Product datasheet for RC220596

### PP14397 (JMJD8) (NM\_001005920) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PP14397 (JMJD8) (NM_001005920) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PP14397
Synonyms:	C16orf20; PP14397
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220596 representing NM_001005920 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGGCGGATGGGCCAAGGTTCCCGCGTGCAGCGCGGCTGCCTGAGGGCGGCAGGCTCATGGCGC  
CGGCGTCGCGTTGCTCGCGCTCTGGGCGCTGGCGGCTGTGGCTCTACCCGGCTCCGGGGCGAGGGCGA  
CGGCGGTGGCGCCGGGCGGGCCGGGGCCGTGGCGGAGGAGGAGCGCTGCACGGTGGAGCGTCGGGC  
GACCTCACCTACGCGGAGTTCGTGCAGCAGTACGCCTTCGTAGGCCCGTCATCTGCAGGGACTCACGG  
ACAACCTCGAGGTTCCGGGCCCTGTGCTCCCGGACAGGTTGCTGGCTTCGTTGGGGACAGAGTGGTCCG  
GCTGAGCACCGCAACACCTACTCCTACCACAAAGTGGACTTGCCCTTCCAGGAGTATGTGGAGCAGCTG  
CTGCACCCCAAGGACCCACCTCCTGGCAATGACACCCGTACTTCTTCGGGGACAACAACCTCACCG  
AGTGGGCTCTCTCTTCGGCACTACTCCCAACCCCAATTTGGCCTGCTGGGAACCGCTCCAGCTTACAG  
CTTTGGAATCGCAGGAGCTGGCTCGGGGTGCCCTTCCACTGGCATGGACCCGGTACTCAGAAGTGATC  
TACGGTCGTAAGCGTGGTTCCTTTACCCACCTGAGAAGACGCCAGAGTTCACCCCAACAAGACCACGC  
TGGCCTGGCTCCGGGACACATACCCAGCCCTGCCACCGTCTGCACGGCCCTGGAGTGTACCATCCGGGC  
TGGTAGGTGCTGACTTCCCGACCGCTGGTGGCATGCTACGCTCAACCTTGACACCAGCGTCTTCATC  
TCCACCTTCTCGGC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC220596 representing NM\_001005920  
Red=Cloning site Green=Tags(s)

MAGGWAQGSRRARLPEGGRMAPASRLALWALAAVALPGSGAEGDGGWRPGGPGAVAEERCTVERA  
 DLTYAEFVQQYAFVRPVILQGLTDNSRFRALCSRDRLLASFGDRVRLSTANTYSYHKVDLPFQEYVEQL  
 LHPQDPTSLGNDTLYFFGDNNFTEWASLFRHYSPPFGLLGTAPAYSFGIAGAGSGVPFHHWGPYSEVI  
 YGRKRWFLYPPEKTPEFHFNKTTLAWLRDITYPALPPSARPLECTIRAGEVLYFPDRWWHATLNLDTSVFI  
 STFLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1267\\_g05.zip](https://cdn.origene.com/chromatograms/ja1267_g05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001005920

**ORF Size:** 855 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\\_001005920.2](#), [NP\\_001005920.2](#)

**RefSeq Size:** 2074 bp

**RefSeq ORF:** 795 bp

**Locus ID:** 339123

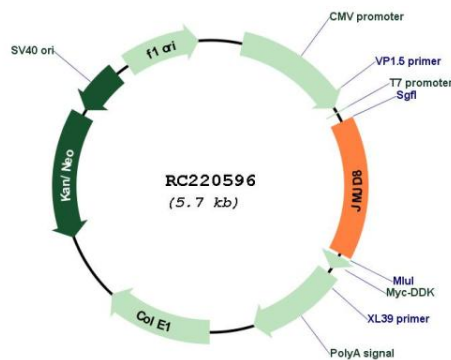
**UniProt ID:** [Q96S16](#)

**Cytogenetics:** 16p13.3

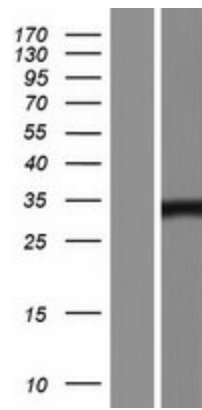
**MW:** 31.5 kDa

**Gene Summary:** Functions as a positive regulator of TNF-induced NF-kappa-B signaling (PubMed:27671354). Regulates angiogenesis and cellular metabolism through interaction with PKM (PubMed:27199445).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RC220596



Western blot validation of overexpression lysate (Cat# [LY423673]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220596 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).