

## Product datasheet for **RC229916**

### **KIST (UHK1) (NM\_001184763) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** KIST (UHK1) (NM\_001184763) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** KIST  
**Synonyms:** KIS; KIST; P-CIP2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC229916 representing NM\_001184763  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCTTACCAGACCGAAGGTCTGTGTTGACCTTAACCGGAGAGTGACTTTGTATGGAGTGTTCACAA  
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ATTTGCCAGTAAAGCAGTGGTGAATGCCCAATTCAGCCTATCACCTAAGAGACCTTATCAAAAGCATG  
CTTCATGATGATCCAAGCAGAAGAATTCCTGCTGAAATGGCATTGTGCAGCCATTCTTTAGCATTCCCT  
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TGATTATCTTGAGAATGAAGAGGAATATGAAGATGTTGTAGAAGATGTAAGAGAGGAGTGTCAAAAATAT  
GGACCAGTGGTATCTCTACTTGTTCCAAAGGAAAATCCTGGCAGAGGACAAGTCTTTGTGAGTATGCAA  
ATGCTGGTATTCCAAAGCTGCGCAGAAATTAAGTACTGACTGGAAGGATGTTTGTGAGGAGTTGTTGTGGC  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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**Protein Sequence:** >RC229916 representing NM\_001184763  
Red=Cloning site Green=Tags(s)

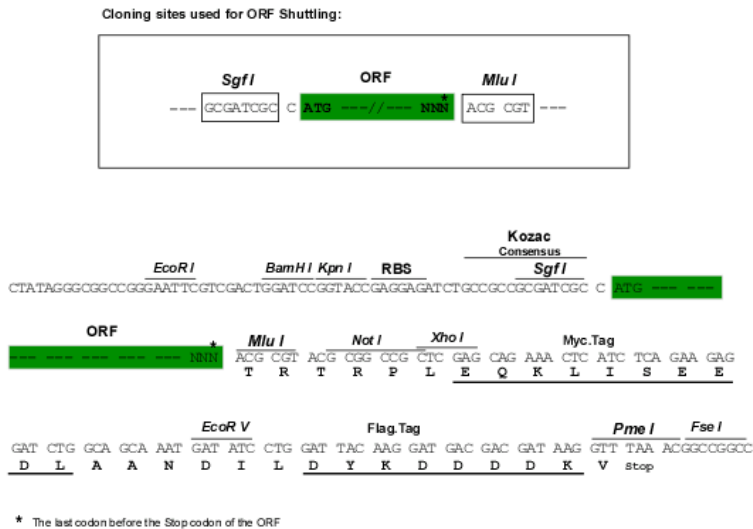
MFLTRPKVCVDLNRVTLYGVFTIHFSPNVPSRCLLLELLDVSSELLL YSSHQGCMMMIQHCVLDVLE  
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 SDTECTSAVDLWSLGIILLEMFGMKLKHVRSQEWKANSASIDHIFASKAVVNAIPAYHLRDLIKSM  
 LHDDPSRRIPAEMALCSPFFSIPFAPHIEDLVMLPTPVLRLNLVLDLDDYLENEEEYEDVVEDVKEECQKY  
 GPVVSLLVPKENPGRGQVFVEYANAGDSKAAQKLLTGRMFDGKVVATFYPLSAYKRGYLYQTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8053\\_f05.zip](https://cdn.origene.com/chromatograms/mk8053_f05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001184763

**ORF Size:** 1035 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\\_001184763.1](#), [NP\\_001171692.1](#)

**RefSeq ORF:** 1038 bp

**Locus ID:** 127933

**UniProt ID:** [Q8TAS1](#)

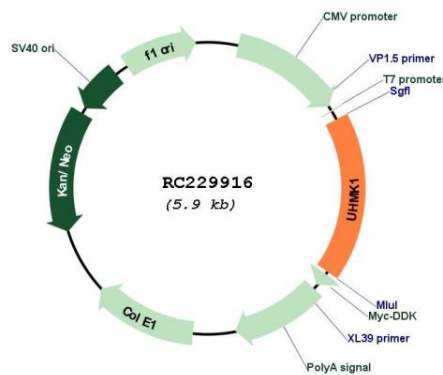
**Cytogenetics:** 1q23.3

**Protein Families:** Druggable Genome, Protein Kinase

**MW:** 39.5 kDa

**Gene Summary:** The gene encodes a serine/threonine protein kinase that promotes cell cycle progression through G1 by phosphorylation of the cyclin-dependent kinase inhibitor 1B (p27Kip1), which causes nuclear export and degradation. The encoded protein is also thought to function in the adult nervous system and the gene has been associated with schizophrenia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]

### Product images:



Circular map for RC229916