

## Product datasheet for **RG229916**

### **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:** TurboGFP  
**Symbol:** UHK1  
**Synonyms:** KIS; KIST; P-CIP2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG229916 representing NM\_001184763  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCTTACCAGACCGAAGGTCTGTGTTGACCTTAACCGGAGAGTGACTTTGTATGGAGTGTTCACAA  
TCCACTTTTCTCCAAATGTGCCATCAGCTGTCTGTTGCTTGAACCTCTGGATGTCAGTGTTCGGAAAT  
GCTCTTATATTCCAGTCACCAGGTTGTTCCATGTGGATGATACAGCATTGTGCCCGAGATGTTTTGGAG  
GCCCTTGCTTTTCTTCATCATGAGGGCTATGTCCATGCGGACCTCAAACACGTAACATATTGTGGAGTG  
CAGAGAATGAATGTTTTAACTCATTGACTTTGGACTTAGCTTCAAAGAAGGCAATCAGGATGTAAGTA  
TATTACAGACAGACGGGTATCGGGCTCCAGAAGCAGAATTGCAAAAATTGCTTGGCCAGGCTGGCCTGCAG  
AGTGATACAGAATGTACCTCAGCTGTTGATCTGTGGAGCCTAGGAATCATTTTACTGAAATGTTCTCAG  
GAATGAACTGAAACATACAGTCAGATCTCAGGAATGGAAGGCAAAACAGTTCTGCTATTATTGATCACAT  
ATTTGCCAGTAAAGCAGTGGTGAATGCCCAATTCAGCCTATCACCTAAGAGACCTTATCAAAAGCATG  
CTTCATGATGATCCAAGCAGAAGAATTCCTGCTGAAATGGCATTGTGCAGCCATTCTTTAGCATTCCCT  
TTGCCCTCATATTGAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATGTGCTGGATGA  
TGATTATCTTGAGAATGAAGAGGAATATGAAGATGTTGTAGAAGATGAAAAGAGGAGTGCAAAAATAT  
GGACCAGTGGTATCTCTACTTGTTCCAAAGGAAAATCCTGGCAGAGGACAAGTCTTTGTTGAGTATGCAA  
ATGCTGGTGATTCCAAAGCTGCGCAGAAATTAAGTACTGACTGGAAGGATGTTTGTGAGGAAAGTTGTTGTG  
TACATTCTACCCGCTGAGTGCCTACAAGAGGGATATCTGTATCAAACCTTGCTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229916 representing NM\_001184763  
 Red=Cloning site Green=Tags(s)

MFLTRPKVCVDLNRVRTLYGVFTIHFSPNVPSRCLLELLDVSVSELLLYSSHQGCMSMMIQHCARDVLE  
 ALAFLHHEGYVHADLKPRNILWSAENECFKLIDFGLSFKEGNQDVKYIQTGDYRAPEAELQNCLAQAGLQ  
 SDTECTSAVDLWSLGIILLEMFSGMKCLKHTVRSQEWKANSASAIIDHIFASKAVVNAIIPAYHLRDLIKSM  
 LHDDPSRRIPAEMALCSPFFSIPFAPHIEDLVMLPTPVLRLNLVDDDDYLENEEEYEDVVEDVKEECQKY  
 GPVVSLLVPKENPGRGQVFVEYANAGDSKAAQKLLTGRMFDGKVVATFYPLSAYKRGYLYQTLL

TRTRPLE - GFP Tag - V

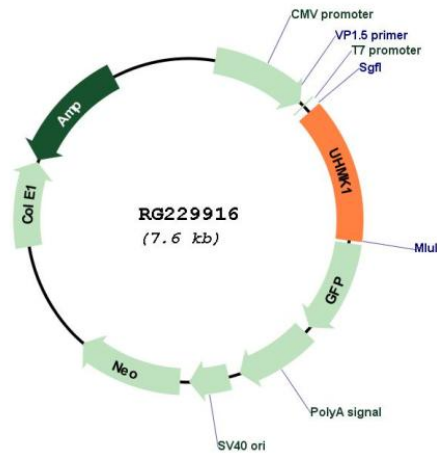
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001184763

**ORF Size:** 1035 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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_001184763.1</a> , <a href="#">NP_001171692.1</a>
<b>RefSeq Size:</b>	8194 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	127933
<b>UniProt ID:</b>	<a href="#">Q8TAS1</a>
<b>Cytogenetics:</b>	1q23.3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	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]