

## Product datasheet for **RG214962**

### **KIST (UHK1) (NM\_175866) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KIST (UHK1) (NM_175866) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIST
Synonyms:	KIS; KIST; P-CIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214962 representing NM_175866 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGATCCGGCTGCGCCTGGGGCGCGGAGCCGCCGCTTTTCTGGAGGCCTTCGGGCGGCTGTGGC  
AGGTACAGAGCCGTCTGGGTAGCGGCTCCTCCGCTCGGTGTATCGGGTTCGCTGCTGCGGCAACCCCTGG  
CTCGCCCCCGGCGCCCTCAAGCAGTTCCTGCCCGAGGAACCACCGGGCTGCGGCCTCTGCCCGGAG  
TATGGTTTCCGAAAGAGAGGGCGCGCTGGAACAGTTGCAGGGTCACAGAAACATCGTGACTTTGTATG  
GAGTGTTTACAATCCACTTTTCTCCAAATGTGCCATCACGCTGTCTGTTGCTTGAACCTCTGGATGTCAG  
TGTTTCGGAATTGCTCTTATATCCAGTACCAGGGTTGTTCCATGTGGATGATACAGCATTGTGCCCGA  
GATGTTTTGGAGGCCCTTCTTTCTTTCATCATGAGGGCTATGTCCATGCGGACCTCAAACCACGTAACA  
TATTGTGGAGTGCAGAGAATGAATGTTTTAAACTCATTGACTTTGGACTTAGCTTCAAAGAAGGCAATCA  
GGATGTAAAGTATATTCAGACAGACGGGTATCGGGCTCCAGAAGCAGAATTGCAAAATGCTTGGCCAG  
GCTGGCCTGCAGAGTGATACAGAATGTACCTCAGCTGTTGATCTGTGGAGCCTAGGAATCATTTTACTGG  
AAATGTTCTCAGGAATGAAACTGAAACATACAGTCAGATCTCAGGAATGGAAGGCAAACAGTTCTGCTAT  
TATTGATCACATATTTGCCAGTAAAGCAGTGGTGAATGCCGAATCCAGCCTATCACCTAAGAGACCTT  
ATCAAAAGCATGCTTCATGATGATCCAAGCAGAAGAATTCCTGCTGAAATGGCATTGTGCGCCATTCT  
TTAGCATTCTTTTGGCCCTCATATTGAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAA  
TGTGCTGGATGATGATTATCTTGAGAATGAAGAGGAATATGAAGATGTTGTAGAAGATGTAAAAGAGGAG  
TGTCAAAAATATGGACCAGTGGTATCTCTACTTGTTCAAAGGAAAATCCTGGCAGAGGACAAGTCTTTG  
TTGAGTATGCAAAATGCTGGTATTCCAAGCTGCGCAGAAATTAAGTACTGCTGGAAGGATGTTTGATGGGAA  
GTTTGTGCTGCTACATTCTACCCGCTGAGTGCCTACAAGAGGGGATATCTGTATCAAACCTTGCTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG214962 representing NM\_175866  
Red=Cloning site Green=Tags(s)

```
MAGSGCAWGAEPFRLEAFGRLWQVQSRLGSGSSASVYRVRCGNGPSPGALKQFLPPGTTGAAASAAE
YGFRKERAALQLQGHRNIVTL YGVFTIHFSPNVPSRCLLLELLDVSVSELLLYSSHQGCSMMMIQHCAR
DVLEALAFLLHHEGYVHADLKPRNILWSAENECFKLIDFGLSFKEGNQDVKIYQTDGYRAPEALQNCLAQ
AGLQSDTECTSAVDLWSLGIILLEMFSGMKLNHTVRSQEWKANSASAIIDHIFASKAVVNAAIIPAYHLRDL
IKSMLHDDPSRRIPAEMALCSPFFSIPFAPHIEDLVMLPTPVLRLNLVDDDYLENEEEEYEDVVEDVKEE
CQKYGPVYVSLVLPKENPGRGQVFVEYANAGDSKAAQKLLTGRMFDGKFFVATFYPLSAYKRGYLYQTLL
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_175866

**ORF Size:** 1257 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\\_175866.5](#)

**RefSeq Size:** 2901 bp

**RefSeq ORF:** 1260 bp

**Locus ID:** 127933

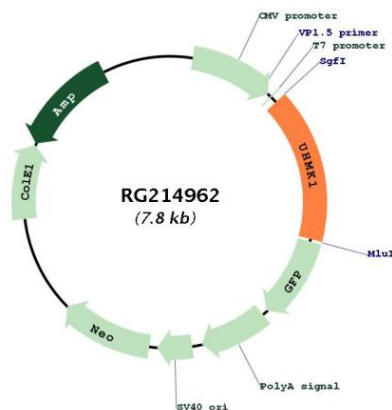
**UniProt ID:** [Q8TAS1](#)

**Cytogenetics:** 1q23.3

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

**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 RG214962