

## Product datasheet for **MG224872**

### **Kiz (NM\_001033298) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kiz (NM_001033298) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kiz
Synonyms:	Gm114; Ncrna00153; Plk1s1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224872 representing NM\_001033298  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCCGAGGGCGCGGTGGCGTGGTGGCTGCCAGGCCTCCGCCACCTCTGCCCTTGCGCA  
 GCCCAGCTACTACGAAAGGGTGGCCAGCTCCAGCAGGCTCTGCGGGACAGTGAAGAAGAGATTGGA  
 CCTGGAAGACAAGCTTTATGAATACAATAAATCTGATAAGTGCAGAGCTAAGCTGAAATGTGAAAACTA  
 AAGAAATACCTGAAGGAAGTATGTGAGTCTGAGAGGAGGGCTCAGGTTGAAACCAAGGATATTTAAAGA  
 AGTTTGAATGTGTCCAGACGTATGTTGAACACTTGACCACAAATACAGAGAAGCTTCAAAAAGTGAAGAC  
 TGAATATGAGGCTGAAGTGAAGAGGATGCGCCTCTGTCAAAGGATAGCCTGGGAATGAGTGACGAAGAC  
 GGAGCAAAGGATGCAGTGCAGGCAGGAATTAACCGGGGACAGCTATGTCAAGAGGATTGTATCAACCGAG  
 CAACAATCTTTATGGGCCGCAAAATGTCAGCCATCTCAAGCATTGAAGATTTAGTACAGAGCTGAAATC  
 TAACCAACCCACAAGAAGCTTTTCAATCTCTGACCCACATTCACACCAACAGACAGCCAGAGCAGCTGT  
 GTGACAGACAGCTGTGTAGTGCAGACTAATGGTGCACACAGTGTAAATAAGTCTGACAAAATACATG  
 GAAAGACATCTTTCAGACTGGTGAAGGCGCCAGTCAAGCTATGTATTGTCTGCAGAAAGAAACAAAC  
 TCATTGCTTGAGATAGGAAGCAGCACACAGCAGCAAGAGTAATTTATCTGAAGGCAGAAAGTCTGCT  
 GAATCCATTCCTCGTTACAGGAAAGATTAAGTCCAGAGAACAGCATCACTGATTTAAAGTGTGACAGTT  
 CCAGCAGATCAGAGGGATCAGACAGAGAAATACTGACACAAGAACATATTGAAGTCAAGGAAAGAGAGC  
 CGGCCCGCTGGTCCCATGATGGCAGCTTCAGAACACTGTACATCTGCAAAGAAGTGGGCTGGAGAGAAG  
 CATTCTGCTTGGGAAGCTTCTCAGATGATCTTGACCACGGGGACTCAAAGTACAGAAGGCCGCTCTGA  
 AACATGAGGAAGAGCAGGAGGAGGAAGTCAATGCAGCAGCAGCGACCTCACAGTTTCTGTGAGTGAAGA  
 TGATCTGATTCTAGAGAGTCTGGCCGCACTGTGCAATCCAGGAGCCAAGATGGCGGGCAAAGATGGAATG  
 CAGGCCTTGCAGCGGCCACACTGAACCAAGACAAGATTCGCTCTTACGGAATATGTTTTACAGACCC  
 AAAGCTTCTGATTCAAAAAGGGAACCTCCCCAGATTCACCAAGACAACCTGAAAAAGTACCAGATTG  
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 TTATTGAAAAAGTCCTTACAGAAGAATGTGACCATAGGTCAGCTATTCACAGTAATGAATCATCTTGCA  
 GCATGCCATCTATTCTGAATGACAATAATGGAATAAAGGAAGCAAACCCGCTCTGCGGCTCAACAGTGT  
 TCTTACAAGGGAACAAGAAGTTTCAAGTGGCTGTGGAGATGAGAGCAAGGAAGAAAGCATAGCTGCGGCC  
 CCAGGCACAGGACACAGAGAGGGGATCTAGTACCCTCAGAACTGTTTCAGTTTCAGTTGGGAGCAGCCA  
 TGAAGAAACAAAAGCCTACCAGTACTGAAGAAGTCTACCCTCAGGACAATTCAAATCAAGCTGAAGA  
 GAGATTTGAAAGTCAGTTTTTCAGGCTGGATATTGGTGGCAGCATGTTCAACAACAAAGACAGCCACAAA  
 ATCGCCTCGGAAGCTAGTTTTTCATCTAGTGAAGGAAGTCTTTGTCAAGGCACGAAAGCAAAGGGACC  
 CAGTGACCACATAAAGTCAAAATGCCTTCTGGGGGAGTCTGATGACAGTAACTCTGAAATCGAAGCTGC  
 CCTACGTCCTAGAGACCATGACATGCCCGATGATTTTGATGATTTTTATGACACA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG224872 representing NM\_001033298  
 Red=Cloning site Green=Tags(s)

MPRGRGGGGGLRQASATSAPLASPSYERVGQLQQALRDSEKKRLDLEDKLYEYNKSDKCRALKCAKL  
 KKYLKVECESERRAQRNQYLKKFECVQTYVEHLTTNTEKLQKLKTEYEAEVKRMRLSKDSLGMDED  
 GAKDAVQAGINSGTAMSRGLYQPATIFMGRQMSAIISSIEDFSTELKSNQPTKNFSISDPHSHQQTQSSC  
 VTDSCVVQTNQDTQCLNKSDKIHGKTSLQTGEKAPVTSYVLSAEEQTHCLEIGSSTQHHSKSNLSEGRKSA  
 ELHSSLQERLSPENSITDLKCDSSSRSEGSREILTQEHIQVREERAGPLVPMMAASEHCTSAKKWAGEK  
 HSAWEASDDLDHGDSSKQKAVLKHEEEQEEGSSCSDTLTVSVSEDDLILESLAALSNPGAKMAGKDG  
 QALRAAHTPRQDSLFTYVLTQSFDPDSKREPSPDSRQPEKVPDCHLLKTRGQCMKEHNSLKKEEATT  
 LLKKVLTTECDHRSAIHSNESSCSPSILNDNNGIKEAKPALRLNSVLTREQEVSSGCGDESKEESIAAA  
 PGTGHREADLVPSELQFSLGAAMKETKAYQLLKKSTLQDNSQAERFESQFGLDIGGSMFTTKTAHK  
 IASEASFSSSEGSPLSRHESKRDPVTTIKSNAFWGESDDSNSEIEAALRPDRDHMPDDFDDFYDT

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001033298

**ORF Size:** 2085 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\\_001033298.4](#)

**RefSeq Size:** 2150 bp

**RefSeq ORF:** 2088 bp

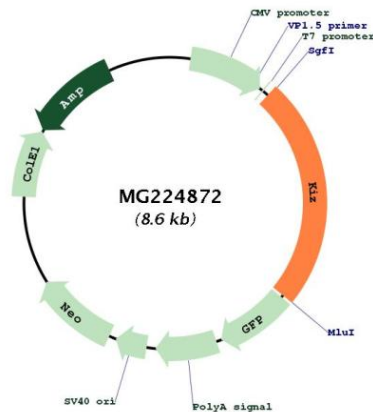
**Locus ID:** 228730

**UniProt ID:** [Q3UXL4](#)

**Cytogenetics:** 2 G2

**Gene Summary:** Centrosomal protein required for establishing a robust mitotic centrosome architecture that can endure the forces that converge on the centrosomes during spindle formation. Required for stabilizing the expanded pericentriolar material around the centriole.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG224872