

## Product datasheet for **MG215175**

### **King2 (NM\_001102410) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	King2 (NM_001102410) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	King2
Synonyms:	MGC117836; MGC123404
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG215175 representing NM\_001102410  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGCTCATTACTACTGCTCTCTGCTCCGGACTCTGCTGACTTTAACACAGGGAGAAGAAGCGC  
 AGGAAATTGACTGCAATGATGAGGCTGATTTTCAGGCTGTGGATGCCTCTCTGAAGAAGCTTAATGCTAG  
 GTTACAAAGCGGCAACCAAGTTTGTGTTGTACCGAGTGACCAAGCGCGCTAAAATGGATGGCTCTGCAACC  
 TTTTATTCCTTCAATTATCAAATCAAGGAGGGCAACTGCTCTGCTCAGAGAGGCCTGGCGTGGCAGGACT  
 GTGACTTCAAGGACTCTGAGGAAGCCGCACTGGAGAATGCACAGCAACTATGGGGAAGAAAGAAAAATAA  
 GTTTTTCATAGTACCCAGACCTGCAAGATTACTCCAGGTAAGGGCCCCATAGTGACAGAGGAGTACCAC  
 TGTGCGAGTTGTGTGCATCCCATATCGGCAGATAATCCAGACCTGGAGCCTGTTTTGAAACACGCCATCG  
 AATATTTCAACAACAACACAGGTCACAGCCACCTTTTGTCTCAGAGAAGTAAAAAGTGCCCAAGGACA  
 GGTGGTGGGTGGCTGAATTTTGTGACATTATCTACACAATTGTGCAACAAATTGTTCAAAGGAGCGTTTT  
 CCTTCCCTCCGTGGAGACTGTGTGGCACTTCCCAATGGTATGGTGGTGTAGAGGTAATGCTTTCC  
 TGGATACTGATAACAAAATTGAGGACTTACGCAGAGCTGTGACCTTCATCCAGGAGATGATTTGGTAGA  
 AGCGCTTCCCAAGCCTTGCCCTGGCTGCCCCAGGGACATACCTGTAGACAGCCCAGAGCTGAAGGAGGTG  
 CTTGGTCAATCCATTGCACAGCTAAATACAGAGAATGACCATCCTTTCTATTTCAAGATTGACACCGTGA  
 AAAAAGCAACATCACAGTGGTAGCAGGAACTAATTATGTTATTGAGTTCATAGCCAGAGAAACCAATG  
 TTCCAAGGAAAGTAACACAGAGCTGACAGAAGATTGTGAGATCAAGCACCTTGGACAAAGTCTCGACTGC  
 AATGCTAACGTGTACATGAGACCTTGGGAGAACAAGTCATCCCGACTGTGAAATGCCAAGCATTAGATA  
 AGCAGGAAACAATAAGCAACTTCCAGAAATGTCTGGGCGCCCATGGAAGCCAGCTAGCTGGAAGGATC  
 CAAACACAGAAACAACAGAATTTTCTGATTTTGTCTCCTTGTGTTCTTTCTTAACTTACACAGCCTAG  
 GTAGCTTCAAAATGTTCTCCAGCCTTTCTTTCTACTGCCCAAGCACAAACATTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG215175 representing NM\_001102410  
 Red=Cloning site Green=Tags(s)

MKLITLLLLCSGLLLTLTQGEAAQEIHCNDEAVFQAVDASLKKLNARLQSGNQFVLYRVTKRAKMDGSAT  
 FYSFNYQIKEGNCSAQRGLAWQDCDFKDEEAATGECTATMGKKENKFFIVTQTCKITPGKPIVTEEYH  
 CASCVHPISADNPDLEPVLKHAIEYFNNTGHSHLFALREVKSAQGOVVGGLNFDIITYIVQTNCSKERF  
 PSLRGDCVALPNGDGGECRGNFLDNDKIEDFTQSCDLHPGDDLVEALPKPCPGCPRDIPVDSPELKEV  
 LGHSIAQLNTENDHPFYFKIDTVKATSQVVAGTNYVIEFIARETCKSKESNTELEDCEIKHLGQSLDC  
 NANVYMRPWENKVIPTVKQALDKTIPIRRRPPGFSPFRSAKVQETKAGTTKQLPRNVLGAHGSQLAGRI  
 QTQKQNFLLIISLMFFLNHLSLGSFTNVLPAFLSTAQAQTL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001102410

**ORF Size:** 1386 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\\_001102410.1](#), [NP\\_001095880.1](#)

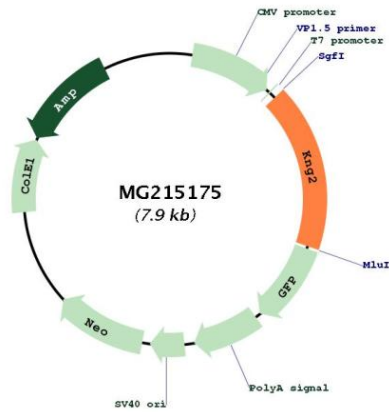
**RefSeq Size:** 1686 bp

**RefSeq ORF:** 1389 bp

**Locus ID:** 385643

**Cytogenetics:** 16 B1

Product images:



Circular map for MG215175