

## Product datasheet for **MR202272**

### 1110005A23Rik (BC027510) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** 1110005A23Rik (BC027510) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** 1110005A23Rik  
**Synonyms:** 1110005A23Rik; Cip29  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR202272 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCCGAGACGGTGGAGCTCCACAAGCTGAAGCTTCTGAACTAAAGCAAGAATGTCTTGCTCGTG  
GTTTAGAGACCAAGGGAATAAACCAAGATCTTATAAATAGGCTGCAGGCATCTTGAAGACCATGCAGA  
AGAAGAAGCAAAATGAAGAAGATGTACTGGGAGATGAACTGAGGAAGAAGAACCAAGCCATAGAAGT  
CCTGTTAAAGAGGAAGAACCTCCTGAAAAGGCTGTTGATATGGCATCGGAAAAGAAGGTGGTAAAGATTA  
CATCTGGGATACCTCAGACTGAAAGAATGCAGAAGAGGGCTGAACGATTCATGTACCTGTAAGCCTGGA  
GAGTAAGAAGGCTGCCCGGGCGGCTAGGTTTGGAAATTTCTTCAGTTCCAACAAAAGGTTTATCATCTGAC  
ACCAAGCCTATGGTTAACCTGGATAAACTAAAGGAAAGAGCACAGAGATTTGGTTTGAATGTCTCTTCCA  
TCTCTAGAAAGTCTGAGGATGATGAGAAGCTGAAGAAACGGAAGGAGAGATTTGGGATTGTGACAAGTTC  
AGCTGGAAGTGAACACAGAGGATACAGAGGCAAGAAAAGAAAAGAGCAGAGCGTTTTGGAATTGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR202272 protein sequence  
**Red=Cloning site Green=Tags(s)**

MAAETVELHKLKLAELKQECLARGLETGKIKQDLINRLQAYLEDHAEENEEDVLGDETEEEPKPIEL  
PVKEEPEKAVDMASEKKVVKITSGIPQTERMQKRAERFNPVPSLESKKAARAARFGISSVPTKGLSSD  
TKPMVNLDKLKERARFGLNVSSI SRKSEDEKLLKRRKRFIVTSSAGTGTTEDEAKKRKRAERFGIA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC027510

**ORF Size:** 630 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:** [BC027510](#), [AAH27510](#)

**RefSeq Size:** 908 bp

**RefSeq ORF:** 632 bp

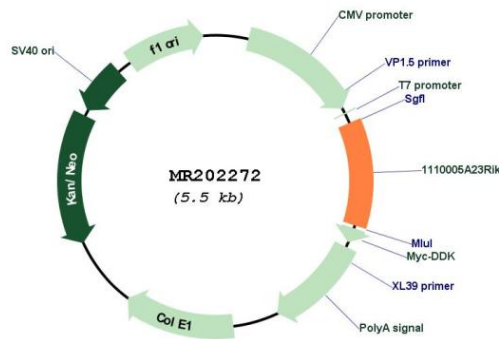
**Locus ID:** 66118

**Cytogenetics:** 10 D3

MW: 23.5 kDa

**Gene Summary:** Binds both single-stranded and double-stranded DNA with higher affinity for the single-stranded form. Specifically binds to scaffold/matrix attachment region DNA. Also binds single-stranded RNA. Enhances RNA unwinding activity of DDX39A. May participate in important transcriptional or translational control of cell growth, metabolism and carcinogenesis. Component of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202272