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Product datasheet for MG202272

1110005A23Rik (BC027510) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	1110005A23Rik (BC027510) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	1110005A23Rik
Synonyms:	1110005A23Rik; Cip29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

```
>MG202272 representing BC027510
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCCGAGACGGTGGAGCTCCACAAGCTGAAGCTTGCTGAACTAAAGCAAGAATGTCTTGCTCGTG
GTTTAGAGACCAAGGGAATAAAACAAGATCTTATAAATAGGCTGCAGGCCTATCTTGAAGACCATGCAGA
AGAAGAAGCAAATGAAGAAGATGTACTGGGAGATGAAACTGAGGAAGAAGAACCAAAGCCCATAGAACTG
CCTGTTAAAGAGGAAGAACCTCCTGAAAAGGCTGTTGATATGGCATCGGAAAAGAAGGTGGTAAAGATTA
CATCTGGGATACCTCAGACTGAAAGAATGCAGAAGAGGGCTGAACGATTCAATGTACCTGTAAGCCTGGA
GAGTAAGAAGGCTGCCCGGGCGGCTAGGTTTGGAATTTCTTCAGTTCCAACAAAAGGTTTATCATCTGAC
ACCAAGCCTATGGTTAACCTGGATAAACTAAAGGAAAGAGCACAGAGATTTGGTTTGAATGTCTCTTCCA
TCTCTAGAAAGTCTGAGGATGATGAGAAGCTGAAGAAACGGAAGGAGAGATTTGGGATTGTGACAAGTTC
AGCTGGAACTGGAACCACAGAGGATACAGAGGCAAAGAAAAGAAAAAGAGCAGAGCGTTTTGGAATTGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
```

Protein Sequence:

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>MG202272 representing BC027510
Red=Cloning site Green=Tags(s)

MAAETVELHKLKLAELKQECLARGLETKGIKQDLINRLQAYLEDHAEEEANEEDVLGDETEEEEPKPIEL
PVKEEEPPEKAVDMASEKKVVKITSGIPQTERMQKRAERFNVPVSLESKKAARAARFGISSVPTKGLSSD
TKPMVNLDKLKERAQRFGLNVSSISRKSEDDEKLKKRKERFGIVTSSAGTGTTEDTEAKKRKRAERFGIA

TRTRPLE - GFP Tag -  V
```

Restriction Sites: SgfI-MluI

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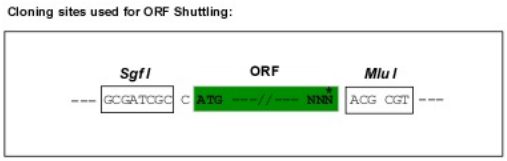
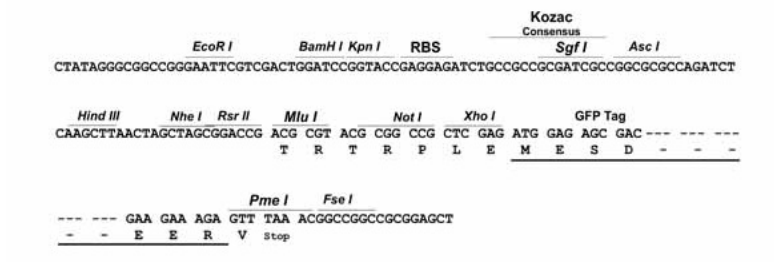
Cloning Scheme:





ACCN:	BC027510
ORF Size:	632 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

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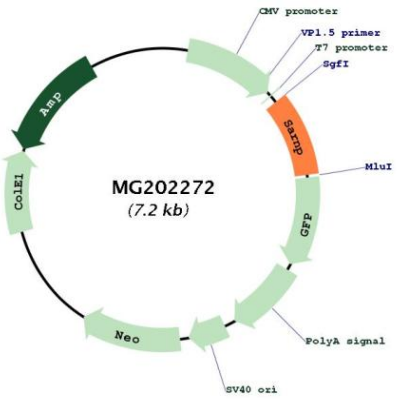
Gene Summary: Binds both single-stranded and double-stranded DNA with higher affinity for the single-stranded form. Specifically binds to scaffold/matrix attachment region DNA. Also binds single-stranded RNA. Enhances RNA unwinding activity of DDX39A. May participate in important transcriptional or translational 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 MG202272

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