

Product datasheet for **MG210709**

Trpc4ap (BC033274) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc4ap (BC033274) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trpc4ap
Synonyms:	truss, mFLJ00177
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210709 representing BC033274
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGCGCCCGCAGCGGCTGGAGCTGGGGCCAGCCGGGGAGCGGTTGGCAGCTACCGCGCGG
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 CACCTGCCTGGAGAATAGCTCCTGTATCAGCTTCTCGTACTGGAAGGAGACAGTGTCCATCTTGTGAAC
 CCAGACCGCCAGTCGCCCTCGTCCCTCGTACAGTACATTGAGGAGCCCTACATGGACATAGACAGAGACT
 TCACTGAGGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210709 representing BC033274
Red=Cloning site Green=Tags(s)

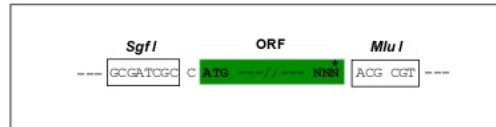
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VTLSLDRFENQVDMKVAEVLSECRLLAYISQVPTQMSFLFRLINI IHVQTLTQENVSCNTSLVILMLAR
RKERLPLYLRLLRMEHSKKYPGFLNNFHNLLRFWQQHYLHKDKDSTCLENSSCISFSYWKETVSILLN
PDRQSPSALVSYIEEPYMDIDRDFTEE
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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                                     Kozac
                                     Consensus
          EcoRI      BamHI KpnI      RBS      SgfI      AscI
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

          HindIII     NheI  RsrII     MluI      NotI      XhoI      GFP Tag
CAAGCTTAAGTACTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG AGC GAC --- --
          T  R  T  R  P  L  E  M  E  S  D  -  -  -

          PmeI      FseI
--- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
-  -  E  E  R  V  Stop
  
```

ACCN:	BC033274
ORF Size:	2391 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: [BC033274.1](#)

RefSeq Size: 3133 bp

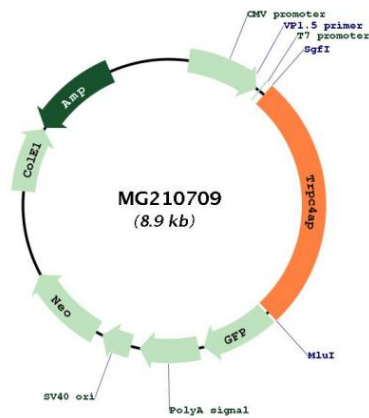
RefSeq ORF: 2393 bp

Locus ID: 56407

Cytogenetics: 2 77.26 cM

Gene Summary: Substrate-specific adapter of a DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex required for cell cycle control. The DCX(TRUSS) complex specifically mediates the polyubiquitination and subsequent degradation of MYC (By similarity). Also participates in the activation of NFKB1 in response to ligation of TNFRSF1A, possibly by linking TNFRSF1A to the IKK signalosome. Involved in JNK activation via its interaction with TRAF2. Also involved in elevation of endoplasmic reticulum Ca(2+) storage reduction in response to CHRM1. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210709