

Product datasheet for **MR210709**

Trpc4ap (BC033274) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trpc4ap (BC033274) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trpc4ap
Synonyms:	truss, mFLJ00177
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210709 representing BC033274
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGCGCCCGCAGCGGCTGGAGCTGGGGCCAGCCGGGGAGCGGTTGGCAGCTACCGCGCGG
 CGTGGGGCGGCTGGGGAGGTCGACCGCGCCGGGTAACATCCTGCTGCAGCTGCGCAGGGCCAGCTCAC
 CGGCCGAGGCTGGTCCGGGCGGTGCAGTTCAGTACACTGAGACCTTTTTGACCGAGAGGGACAAATTTGCCAAA
 TGGAGTGAATTCCTCAGTTGCTCCTTAAGCTGTATGCCACCAGCCATCTGCACAGTGACTTCGTTGAGT
 GCCAAAGCATTCTCAAGGAGATTCTCCTCTTCTCTATGGAGGCTATGGCGTTTGTAACTGAAGACAG
 GAAATTTACTCAAGAAGCTACATACCCAAATACATATTTTTGACTATTTGGAGGTGTTGATCTTCTT
 GTAGAAATTTATGAGGCTACCATCTCTATCCGGGGACAGAACTAAAAATAAGTGACGAGATGTCGA
 AGGACTGCTTGAGCATCCTGTACAATACCTGTGTCTGCACGGAAGGAGTAACGAAGCGTTTGGCAGAAAA
 GAATGATTTTGTATTTTCTGTTCACACTGATGACAAGTAAGAAGACATTCTTACAACAGCGACTCTC
 ATTGAAGACATTTTGGGTGTTAAGAAGGAAATGATCCGGCTAGATGAAGTCCCAATCTGAGTTCCTTAG
 TATCCAATTTGATCAGCAGCAGCTTGCTAACTTCTGCAGGATCCTGGCTGTCACCAATTCAGAGATGGA
 CACGGGAATGACGACAAACACACGCTTCTTGCCAAAAATGCTCAGCAGAAGAAGAGTTTGGAGTTGGGG
 CCTTCTGCAGTGAAATCAACCAAGCTGCTTCTCAGCATCCCTGGCTTGTGGAACCGCTTGGCAAAAC
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 ATGGCTCGACAATGCGTTGGTGTAGATGCCCTGATGCGAGTGGCAATGAGGAGTCTGAACACAATCAA
 GCCCCACTGTGTTCCCTTCTTAGGCACTTCGGAGGAGGGTGGGCTGCCACACACCTCGGCCAGGGCGC
 AGTCCCCCAGTCCATGAAGATTATGCATGAGATTATGTACAAACTGGAAGTGCTTTATGTCCTCTGCGT
 GCTGCTGATGGGCGTCAAGGAAACCAGGTCCACAGGATGATTGCTGAGTTCAAGTTGATCCCAGGACTC
 AACAAATTTGTTGACAAACTGATTTGGAGGAAGCATTGAGCATCTGCCCTTGTCTCCATGGCCACAACC
 AGAACTGTGACTGTAGCCCGGACATCACCTGAAGATCCAGTTTTTGGAGCTTCTCCAGAGTTTCACTGA
 CCACCATGAGAACAAGTACTTGTGCTCAACAACCAGGAGCTAAATGAGCTCAGTGCCATCTCGTGAAA
 GCCAACATCCCTGAGGTGGAGGCTGTCTCAACACTGACAGGAGTCTGGTGTGTGACGGCAAGAGGGGCC
 TACTAACTCGGCTGCTGCAGGTCATGAAGAAGGAGCCAGCGGAGTCTTCAATTCAGTTTTGGCAAGCCCG
 GGCTGTGGAAGTTTCTCCGAGGGACCACCTCCTATGCAGACCAGATGTTCTGCTGAAGCGAGGCCTT
 CTGGAGCACATCTATACTGCATTGTGGACAGTGAAGTCAAGTCTAGGGATGACTCCAGAGCTACTTTG
 ATCTCCTGGGAGAGCTGATGAAGTTCAACGTGATGCGTTCAAGAGATTCAATAAATATATCAACACTGA
 TGCAAAGTTCCAGGTGTTCTGAAACAGATCAACAGCTCGCTAGTGGACTCCAACATGCTGGTGGCCTGT
 GTCACCTGTCACTGGACCGATTTGAAAACCAGGTGGACATGAAAGTGGCCGAGGTCTGTCCGAGTGCC
 GCCTGCTTGCCTACATATCCAGGTGCCACGCAATGTCCTTCTTCCGCTCATCAATATCATCCA
 TGTGCAGACGCTAACCCAGGAGAAGCTCAGTGCCTCAACACCAGCCTGGTAATCCTGATGCTGGCCGA
 CGGAAAGAGCGGCTGCCCTGTACCTGCGACTGCTACAGCGAATGGAGCACAGCAAGAAATACCCCGCT
 TCCTGCTCAACAACCTCCACAACCTGCTGCGCTTTTGGCAGCAGCACTACCTGCACAAGGATAAGGACAG
 CACCTGCCTGGAGAATAGCTCCTGTATCAGCTTCTCGTACTGGAAGGAGACAGTGTCCATCTTGTGAAC
 CCAGACCGCCAGTCGCCCTCGTCCCTCGTACAGTACATTGAGGAGCCCTACATGGACATAGACAGAGACT
 TCACTGAGGAG

ACGCGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210709 representing BC033274
Red=Cloning site Green=Tags(s)

MAAAPAAAGAGASRRRLAATAAAWGGWGRPRPGNILLQLRQQQLTGRGLVRAVQFTETFLTERDKLSK
WSGIPQLLLLLYATSHLHSDFVECQSILKEISPLLMEAMAFVTEDRKFTQEATYPNTYIFDLFGGVDLL
VEILMRPTISIRGQKLKISDEMSKDCLSYLYNTCVCTEGVTKRLAEKNDFVIFLFTLMTSKKTFLQTATL
IEDILGVKKEMIRLDEVPNLSSLVSNFDQQQLANFCRILAVTISEMDTGNDKHTLLAKNAQQKSLSLG
PSAAEINQAALLSIPGFVERLCKLATRKVSESTGTASFLQELEEYTWLDNALVLDALMRVANEESEHNQ
APTVPFSLGTSEEGGLPHTSARAQLPQSMKIMHEIMYKLEVLYVLCVLLMGRQRNQVHRMIAEFKLIPL
NNLFDKLIWRKHSASALVLHGHNQNCDCSPDITLKIQLRLLQSFSDHHENKYLNNQELNELSAISLK
ANIPEVEAVLNTDRSLVCDGKRGLLTRLLQVMKKEPAESSFRFWQARAVESFLRGTTSYADQMFLKRG
LEHILYCIVDSECKSRDVLQSYFDLLGELMKFNVDFAKRFNKYINTDAKFQVFLKQINSSLVDSNMLVRC
VTLSLDRFENQVDMKVAEVLSECRLLAYISQVPTQMSFLFRLINI IHVQTLTQENVSCNTSLVILMLAR
RKERLPLYLRLLRMEHSKKYPGFLNFFHLLRFWQQHYLHKDKDSTCLENSSCISFSYWKETVSILLN
PDRQSPSALVSYIEEPYMDIDRDFTEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9043_d11.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:


- 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

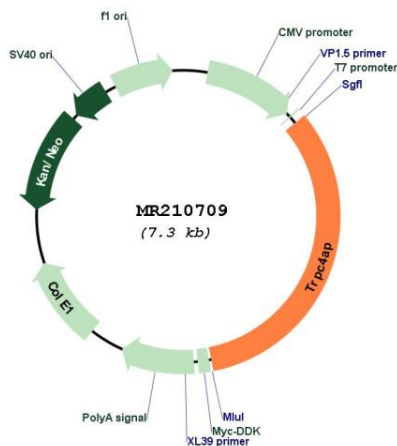
Locus ID: 56407

Cytogenetics: 2 77.26 cM

MW: 114.8 kDa

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 MR210709