

Product datasheet for **MR221100**

Cnot6l (NM_178854) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnot6l (NM_178854) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnot6l
Synonyms:	4932442K20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221100 representing NM_178854
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGACTAATAGGGATGCCAAAGGAAAAATATGATCCTCCAGATCCTCGCAGAATTTACACCATCATGT
 CCGCAGAGGAGGTAGCCAATGGGAAAAATCTCACTGGGCAGAGTTAGAGATCTCGGGTAGAGTGC GGAG
 CTTAAGTACATCACTCTGGTCATTAACACACTTGACAGCACTGCACCTAAATGACAATAACCTTGCTCGC
 ATTCCACCTGATATTGCCAAGCTTCATAATCTGGTTTACCTGGATCTGTCACTCAATAAACTCAGAAGTT
 TACCAGCAGAAGTAGGAAACATGGTGTCTCTCAGGGAATTGCTTTTAAATGACAATTATTACGGGTGTT
 GCCTTATGAAGTTGGCCGGCTCTCCAGCTACAACTCTAGGTTTAAACAGGCAATCCTTTATCACAGGAT
 ATATGAGCTTATACCAGGACCCAGATGGAACCCGAAAGCTACTGAAGTTTATGCTTGACAATCTTGACG
 TTCATCCAGAGCAGCTTCTCCGAGGCCATGGATTACATTAAGAAGACGAGACCAATCTGCCATCAGC
 ATCATTACGGTTATGTGTTACAATGTGTTATGTGATAAATATGCTACCAGGCAGCTATATGGCTATTGT
 CCGTCCTGGGCATTAAACTGGGAATACAGGAAAAAGGGAATTATGGAAGAAATTGTTAACTGGGACGCAG
 ATATCATTAGTCTTCAGGAAGTGGAACAGAGCAATACTTTACTCTCTTTCTGCCAGCATTGAAGGATCG
 TGGATATGATGGATTTTTTCTCCAAAGTCACGTGCCAAAATCATGTCTGAGCAGGAAAGAAAGCATGTG
 GATGGTTGTGCAATTTCTTCAAACAGAAAAATTTACATTGGTGCAGAAGCATAACAGTGGAAATCAACC
 AGGTAGCAATGGCAAATTCAGATGGATCCGAAGCAATGCTAAACAGAGTAATGACGAAAGATAACATTGG
 CGTTGCTGTGGTGTAGAGGTCCACAAGGAGCTTTTGGAACAGGTATGAAGCCTATTATGCTGCAGAC
 AAACAGCTGCTTATAGTGGCAAATGCCACATGCATTGGGACCCAGAGTATTCTGATGTGAACTTATTC
 AGACCATGATGTTTGTCTCAGAGGTTAAAAACATTTGGAGAAAGCCTCAAGTAGGCCTGGCAGCCCAAC
 TGCAGATCCCAATTCATCCCGCTGGTGTCTATGTGCAGATCTTAACTCATTGCCAGATTCAGGTGTTGTG
 GAATATTTAAGCAACGGTGGAGTAGCTGACAACATAAAGACTTCAAGGAACTAAGGTACAATGAGTGTCT
 TTATGAAGTTTCAAGTGTAGTGGAAAGAATGGAAGCTCAGAAGGGAGAATCACACATGGCTTCCAAGTTAA
 GAGCGCTATGAAAAAAGTGTGCTTATACCAATTACACCTTTGATTTCAAAGGTGTGATTGACTAC
 ATTTTCTATTCCAAGACTCATATGAACGTGCTTGGTGTCTGGGGCTTTAGATCCTCAATGGCTGGTTG
 AGAACAACATCACTGGGTGTCCACACCCTCACATCCCTCAGACCACTTCTCACTGTTAACACAAGTTGA
 ACTCCACCCTCCACTCTGCCTCTGTCAATGGTGTTCCTTGCCTAATCGGAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221100 representing NM_178854
 Red=Cloning site Green=Tags(s)

MRLIGMPKEYDPPDPRIYTIMSAEEVANGKSHWAELEISGRVRSLSLWLSLTHLTALHLNDNNLAR
 IPPDIAKLNHLVYLDLSSNKLRLPAELGNMVSLRELLLDNYLRVLPYELGRLFQLQTLGLTGNPLSQD
 IMSLYQDPDGTRKLLNFMLDNLAVHPEQLPPRPWITLKERDQILPSASFVVMCYNVLC DYATRQLYGYC
 PSWALNWEYRKKGIMEEIVNWDADIISLQEVETEYFTLFLPALKDRGYDGFSPKSRAKIMSEQERKHV
 DGCAIFFKTEKFTLVQKHTVEFNQVAMANS DGSEAMLNRVMTKDNI GVAVVLEVHKELFGTGMKPIHAAD
 KQLLIVANAHMHWDP EYSDVKLIQTMMFVSEVKNILEKASSRPGSPTADPN SIPLVLCADLNSLPDSGVV
 EYLSNGGVADNHKDFKELRYNECLMNFSCSGKNGSSEGRITHGFQLKSAYENNLMPYTYTFDFKGVIDY
 IFYSKTHMNVLGVLGPLDPQWLVENNITGCPHPHIPSDHF SLLTQLELHPPLPLVNGVHLPNRR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_178854

ORF Size: 1665 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_178854.4](#), [NP_849185.2](#)

RefSeq Size: 3171 bp

RefSeq ORF: 1668 bp

Locus ID: 231464

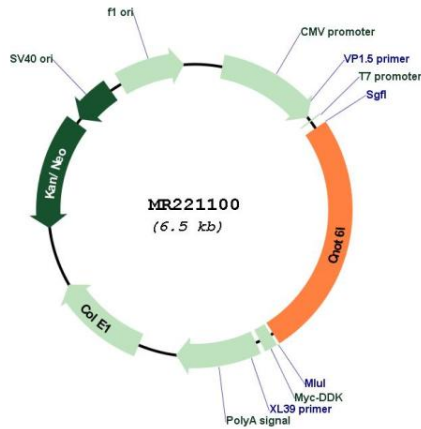
UniProt ID: [Q8VEG6](#)

Cytogenetics: 5 E3

MW: 63.5 kDa

Gene Summary: Poly(A) nuclease with 3'-5' RNase activity. Catalytic component of the CCR4-NOT complex which is one of the major cellular mRNA deadenylases and is linked to various cellular processes including bulk mRNA degradation, miRNA-mediated repression, translational repression during translational initiation and general transcription regulation. Additional complex functions may be a consequence of its influence on mRNA expression. Involved in mRNA decay mediated by the major-protein-coding determinant of instability (mCRD) of the FOS gene in the cytoplasm. Involved in deadenylation-dependent degradation of CDKN1B mRNA. Its mRNA deadenylase activity can be inhibited by TOB1. Mediates cell proliferation and cell survival and prevents cellular senescence (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221100