

Product datasheet for RC208510

COMMD2 (NM_016094) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COMMD2 (NM_016094) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COMMD2
Synonyms:	HSPC042
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208510 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGCTGGAATTGTCCGAGGAGCATAAGGAACACCTGGCCTTCCTGCCTCAAGTGACAGCGCGGTGG
 TCGCCGAGTTTGGGCGGATTGCTGTGGAATTCCTGAGACGCGCGCAAACCCAAAATCTACGAAGGCGC
 CGCCAGAAAACCAATGTGAGTAGTGACACTGTCCAGCATGGTGTGAAGGATTAACTATCTCCTCACT
 GAGAGCTCAAAGCTCATGATTTCTGAAGTGGATTTCCAAGACTCTGTTTTGTTCTGGGATTCTCTGAAG
 AATTAAACAAATTGTTGCTTCAGCTTTATCTGGACAACAGAAAAGAGATCAGAACGCTTCTGAGTGAATT
 GGACCAAGCCTTCCCAGTTATCATAACCTTGAATGGCGACTAGATGTACAGCTTGCAAGTAGAAGTCTC
 AGGCAACAGATTAACCAGCAGTGACTATAAAGCTACACCTTAATCAAAATGGAGATCACAACACCAAG
 TTCTGCAGACAGACCCAGCCACCTGCTCCATTTGGTTCAACAAGTGAACAAGCATTGGAAGAGATGAA
 GACAAACCACTGTAGGAGAGTTGTCGCAACATCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC208510 protein sequence Red=Cloning site Green=Tags(s)
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MLLELSEEHKEHLAFLPQVDSAVVAEFGRIVAEFLRRGANPKIYEGAARKLNVSSDTVQHGEGLTYLLT
 ESSKLMISELDFQDSVFLGFSEELNKLQLYLDNRKEIRTLSELAPSLPSYHNLEWRLDVQLASRSL
 RQQIKPAVTIKLHLNQGDHNTKVLQTDPATLLHLVQLEQALEEMKTNHCRRVVRNIK

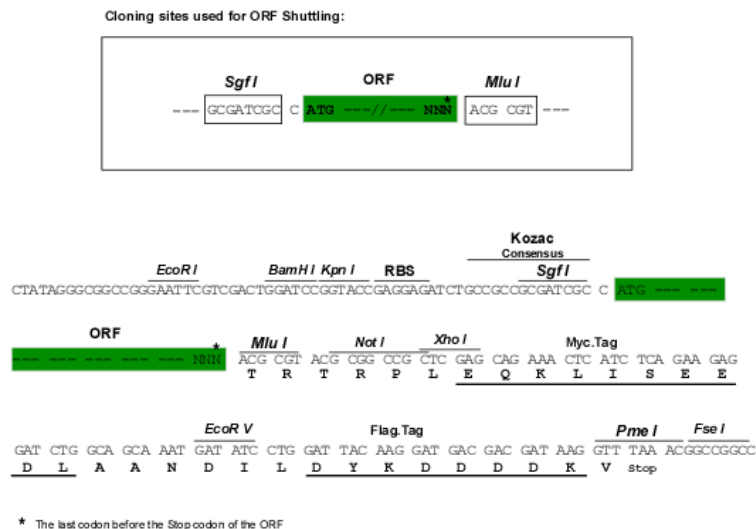
TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Chromatograms: https://cdn.origene.com/chromatograms/mk6349_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016094

ORF Size: 597 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.

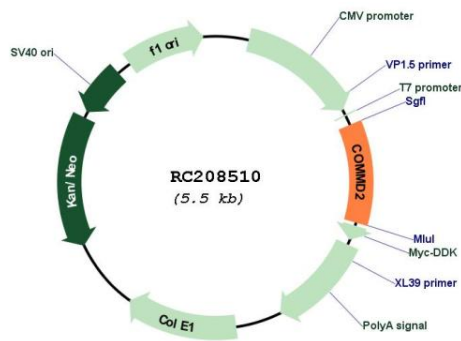
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016094.4](#)

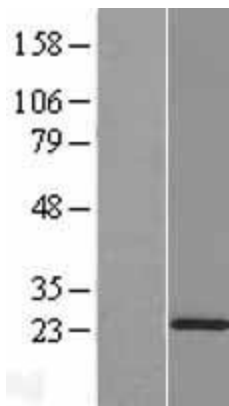
RefSeq Size: 3724 bp

RefSeq ORF:	600 bp
Locus ID:	51122
UniProt ID:	<u>Q86X83</u>
Cytogenetics:	3q25.1
MW:	22.7 kDa
Gene Summary:	May modulate activity of cullin-RING E3 ubiquitin ligase (CRL) complexes (PubMed:21778237). May down-regulate activation of NF-kappa-B (PubMed:15799966).[UniProtKB/Swiss-Prot Function]

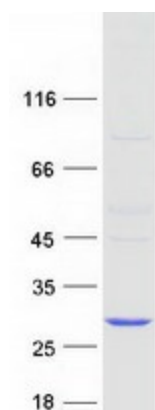
Product images:



Circular map for RC208510



Western blot validation of overexpression lysate (Cat# [LY414198]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208510 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COMMD2 protein (Cat# [TP308510]). The protein was produced from HEK293T cells transfected with COMMD2 cDNA clone (Cat# RC208510) using MegaTran 2.0 (Cat# [TT210002]).