

Product datasheet for **RC227659**

NECAP2 (NM_001145277) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NECAP2 (NM_001145277) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NECAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227659 representing NM_001145277 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGAGCGGGTACGAGTCGGTGCTCTGTGTCAAGCCTGACGTCCACGTCTACCGCATCCCTCCGC
GGGCTACCAACCGTGGCTACAGGGCTGCGGAGTGGCAGCTGGACCAGCCATCATGGAGTGGCCGGCTGAG
GATCACTGCAAAGGGACAGATGGCCTACATCAAGCTGGAGGACAGGACGTCAGGGGAGCTCTTTGCTCAG
GCCCGGTGGATCAGTTTCCCTGGCACAGCTGTGGAGAGTGTGACGGATTCCAGCAGGTACTTCGTGATCC
GCATCGAAGATGGAAATGGGCGACGGCGTTTATTGGAATTGGCTTCGGGGACCGAGGTGATGCCTTTGA
CTTCAATGTTGCATTGCAGGACATTTCAAGTGGGTGAAACAGCAGTGTGAATTTGCAAAAACAAGCCAG
AACCCAGACCAAGGCCCTAAACTGGACCTGGGCTTCAAGGAGGGCCAGACCATCAAGCTCAACATCGCAA
ACATGAAGAAGAAGGAAGGAGCAGCTGGGAATCCCGAGTCCGGCCTGCCAGCACAGGAGGGCTGAGCCT
GCTTCCCCTCCCCAGGGGGAAAACCTCCACCCTGATCCCTCCCCTGGGGAGCAGTTGGCTGTGGG
GGATCCCTCGTCCAGCCAGCAGTTGCTCCAGTTCAGATCAACTCCAGCCAGACCCAGCCAGGCACAGG
CTGGGTCCAGTTCTGACCTGAGCACGGTTTTTCTCATGTGACTTCTGGGAAGGCGCTCCCTCATCTGG
CCAAAGGAAGGAGGACGAAGCCCTCCTCAGCTGGCCTGTGTTGGGGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227659 representing NM_001145277
Red=Cloning site Green=Tags(s)

MEESGYESVLCVKPDPVHVYRIPPRATNRGYRAAEWQLDQPSWSGRLRITAKGQMAYIKLEDRTSGELFAQ
 APVDQFPGTAVESVTDSSRYFVIRIEDNGRRAFIGIGFGDRGDAFDNFVALQDHFKWKVQCEFAKQAQ
 NPDQGPKLDLGFKEGQTIKLNIANMKKKEGAAGNPRVRPASTGGLSLLPPPPGGKTSTLIPPPGEQLAVG
 GSLVQPAVAPSSDQLPARPSQAQAGSSSDLSTVFPHVTSKALPHLGQRKEDEALLSWPVFGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8038_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001145277

ORF Size: 819 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_001145277.1](#), [NP_001138749.1](#)

RefSeq ORF: 822 bp

Locus ID: 55707

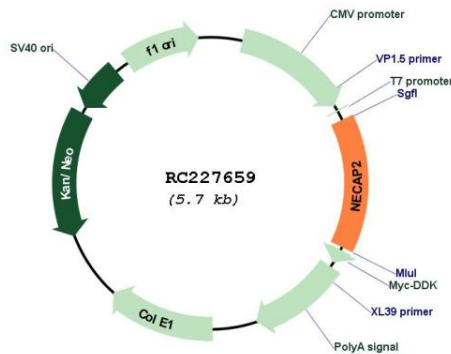
UniProt ID: [Q9NVZ3](#)

Cytogenetics: 1p36.13

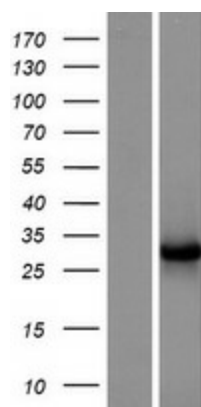
MW: 29.3 kDa

Gene Summary: This gene likely encodes a member of the adaptin-ear-binding coat-associated protein family. Studies of a similar protein in rat suggest a role in clathrin-mediated endocytosis. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2009]

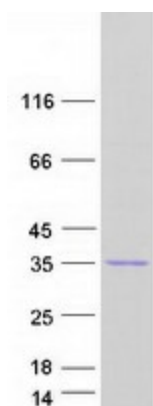
Product images:



Circular map for RC227659



Western blot validation of overexpression lysate (Cat# [LY428781]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227659 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NECAP2 protein (Cat# [TP327659]). The protein was produced from HEK293T cells transfected with NECAP2 cDNA clone (Cat# RC227659) using MegaTran 2.0 (Cat# [TT210002]).