

## Product datasheet for **RC227668**

### NECAP2 (NM\_001145278) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NECAP2 (NM_001145278) 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:	>RC227668 representing NM_001145278 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGAGGAGAGCGGGGCTGCGGAGTGGCAGCTGGACCAGCCATCATGGAGTGGCCGGCTGAGGATCACTGCAAAGGGACAGATGGCCTACATCAAGCTGGAGGACAGGACGTGAGGGGAGCTCTTTGCTCAGGCCCGGTGGATCAGTTTCTGGCACAGCTGTGGAGAGTGTGACGGATTCCAGCAGGTAATTCGTGATCCGCATCGAAGATGGAATGGCGACGGCGCTTTATTGGAATTGGCTTCGGGGACCGAGGTGATGCCTTTGACTTCAATGTTGATTGCAGGACCATTTCAAGTGGTGAACAGCAGTGTGAATTTGAAAACAAGCCAGAACCAGACCAAGGCCCTAAACTGGACCTGGGCTTCAAGGAGGGCCAGACCATCAAGCTCAACATCGCAAACATGAAGAAGAAGGAAGGAGCAGCTGGGAATCCCCGAGTCCGGCCTGCCAGCACAGGAGGGCTGAGCCTGCTTCCCCCTCCCCAGGGGGAAAACCTCCACCCTGATCCCTCCCCCTGGGAGCAGTTGGCTGTGGGGGATCCCTCGTCCAGCCAGCAGTTGCTCCAGTTCCAGGAGTGTCTGTACCCTGGCCACAGCCCAATCCTGCCACTGCTGACATCTGGGAGACTTTACCAAATCTACAGGATCAACTTCAGCCAGACCCAGCCAGGCACAGGCTGGTCCAGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC227668 representing NM\_001145278  
Red=Cloning site Green=Tags(s)

MEESGAAEWQLDQPSWSGRLRITAKGQMAYIKLEDRTSGELFAQAPVDQFPGTAVESVTDSSRYFVIRIE  
 DNGRRRAFIGIGFDRGDADFDFVALQDHFKWKVQCEFAKQAQNPDQGPCLDLGFKEGQTIKLNIANMK  
 KKEGAAGNPRVRPASTGGLSLLPPPPGGKTSTLIPPPGEQLAVGGSLVQPAVAPSSGGAPVPWPQPNPAT  
 ADIWGDFTKSTGSTSSQTQPGTWVQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1257\\_d09.zip](https://cdn.origene.com/chromatograms/ja1257_d09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001145278

**ORF Size:** 711 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\\_001145278.1](#), [NP\\_001138750.1](#)

**RefSeq ORF:** 714 bp

**Locus ID:** 55707

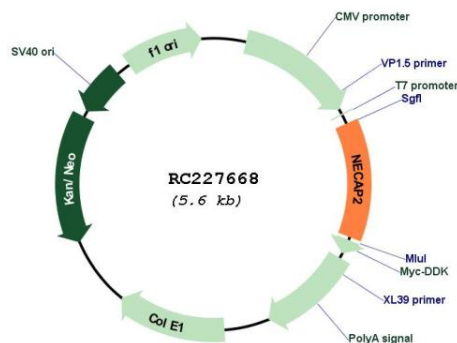
**UniProt ID:** [Q9NVZ3](#)

**Cytogenetics:** 1p36.13

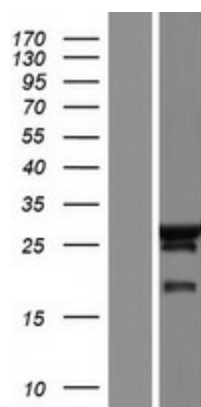
**MW:** 25.1 kDa

**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]

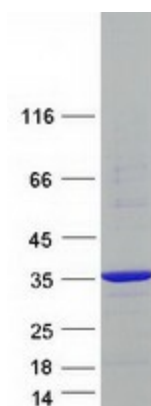
### Product images:



Circular map for RC227668



Western blot validation of overexpression lysate (Cat# [LY428782]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227668 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NECAP2 protein (Cat# [TP327668]). The protein was produced from HEK293T cells transfected with NECAP2 cDNA clone (Cat# RC227668) using MegaTran 2.0 (Cat# [TT210002]).