

## Product datasheet for **RG211100**

### NECAP1 (NM\_015509) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NECAP1 (NM_015509) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NECAP1
Synonyms:	DEE21; EIEE21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211100 representing NM_015509 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGACCGAGTTGGAGTACGAGTCTGTGCTGTGTGAAGCCAGACGTCAGCGTCTACCGATTCCGC  
CCCGGGCTCCAACCGCGGTTACAGGGCTCTGACTGAAATTAGACCAGCCTGATTGGACTGGTCGCCT  
CCGAATCACTTCAAAGGGAAGACTGCCTATATCAAACGAGGATAAAGTTTCAGGGGAGCTCTTTGCT  
CAGGCACCACTAGAACAATATCCTGGTATTGCTGTGGAGACGGTGACAGATTCTAGCCGCTACTTTGTAA  
TCCGGATCCAGGATGGTACTGGGCGCAGTGCTTTCATTGGCATTGGCTTCACAGATCGGGGAGATGCCTT  
CGACTTTAATGTCTCCTTGCAGGATCACTTCAAGTGGTAAAGCAGGAATCTGAGATTTCAAGGAATCT  
CAAGAAATGGATGCTCGTCTAAGTTGGATCTGGGCTTCAAGGAAGGACAAACCATCAAGTTGTGTATCG  
GGAACATTACAAACAAGAAAGGAGGTGCTTCTAAGCCCAGGACTGCAAGGGGTGGGGTCTGAGCTTACT  
CCCACCCCGCCAGGAGGCAAAGTCACTATCCCCACCATCCTCCTCAGTTGCCATCAGCAATCATGTC  
ACCCACCACTTCCGAAATCTAACCATGGAGGAGTATGCAGATATCCTTTTAGATTTGGATTCTC  
CTGCTCCTGTACGACACCAGCACCAACTCCAGTTTCTGTAAGCAATGACTTGTGGGGAGACTTCAGCAC  
TGCTCCAGCTCTGTTCCAAACCAGGCACCACAGCCATCCAACCTGGGTCCAGTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG211100 representing NM\_015509  
 Red=Cloning site Green=Tags(s)

MATELEYESVLCVKPDVSVYRIPPRASNRGYRASDWKLDQPDWTGRLRITSKGKTAYIKLEDKVSSELFA  
 QAPVEQYPGIAVETVTDSSRYFVIRIQDGTGRSAFIGIGFTDRGDAFDNFVSLQDHFKWKQSEISKES  
 QEMDARPKLDLGFKEGQTIKLCIGNITNKKGGASKPRTARGGGLSLLPPPPGGKVTIPPPSSSVAISNHV  
 TPPPPIKSNHGGSDADILLDLDSPAPVTPAPTVPVSVSNDLWGDFSTASSVVPNQAPQPSNWWQF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015509

**ORF Size:** 825 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\\_015509.4](#)

**RefSeq Size:** 2563 bp

**RefSeq ORF:** 828 bp

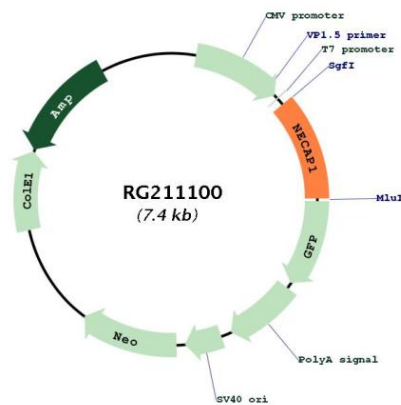
**Locus ID:** 25977

**UniProt ID:** [Q8NC96](#)

**Cytogenetics:** 12p13.31

**Gene Summary:** This gene encodes a protein containing two characteristic WXXF motifs. The encoded protein localizes to clathrin-coated vesicles, where it binds components of the adapter protein complexes and aids in endocytosis. Loss of function of this gene results in early infantile epileptic encephalopathy-21. There is a pseudogene for this gene on chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]

### Product images:



Circular map for RG211100