

## Product datasheet for **RR200779**

### Neurod6 (NM\_001109237) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neurod6 (NM_001109237) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neurod6
Synonyms:	RGD1562793
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR200779 representing NM_001109237 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTAACTACCGTTTGACGAGTCTGTCGTAATGCCGAATCCAGATGTGCAGAAAGTTTGCTAGAC  
AATGTGAGGACCAGAAACAAATTAAGAAACCAGAGAGTTTTCCAAAACAAGTTGCTCTCGAGGAAAGAG  
CATTAAAAGGGCCCCCGGAGAAGAAACCGAGAAAGAGGAGGAGGAGGAAGACAGAGAGGAAGAAGATGAG  
AATGGCTTGCCAGAAGGAGGGTCTCAGGAAAAAAGACCACCAAACACTCGATTGAAAGGGTCAAGT  
TCAGGAGACAGGAAGCCAATGCACGAGAGAGGAACCGGATGCACGCCTCAATGATGCTCTGACAATTT  
GCGAAAAGTGGTCCCCTGTTACTCTAAAACCCAAAACACTGTCCAAAATAGAACTTTACGGCTGGCCAAA  
AATTACATCTGGGCACTTCTGAAATCTGAGGATTGGCAAGAGACCGGATCTGCTCACGTTTCGTCAAA  
ACTTATGCAAAGGTCTTCTCAGCCAACACAACTTGGTGGCAGGCTGCTTACAGCTCAACGCCAGGAG  
TTTCTGATGGGTGAGGTGGGGAGGCTGCCACCACACAAGGTCACTACTCCACATTCTACCCACCC  
TACCACAGCCCTGAGCTGGCCACTCCCCAGGGCATGGGACTCTTGATAATCCAAGTCCATGAAACCT  
ACAATTACTGCAGTGCATATGAATCCTTCTATGAAAGTACTTCCCTGAGTGTGCCAGCCCTCAGTTTGA  
AGGTCCCTTAAGTCCCTCCCAATTAACATAATGGGATATTTCCCTGAAGCAAGAAGAAACCTTGGAC  
TATGGCAAAAATTACAATTATGGCATGCATTACTGTGCAGTGCCACCCAGGGGTCCCCTTGGCAGGGTG  
CCATGTTTCAGGTTGCCACCACAGCACTTCCCTTACGACTTACATCTGCGCAGCCAATCTCTCACTAT  
GCAAGATGAATTAATGCAGTTTTTCATAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR200779 representing NM\_001109237  
Red=Cloning site Green=Tags(s)

MLTLPFDESVMPE SQMCRKFARQCEDQKQIKKPESFPKQVVLRGKSIKRAPGEETEKEEEEEEDREEEDE  
 NGLPRRRLRKKKTTKLRLEVRKFRRQEANARERNRMHGLNDALDNLKVVPCYSKTQKLSKIETLRLAK  
 NYIWALSEILRIGKRPDLLTFVQNLCKGLSQPTNLVAGCLQLNARSFLMGQGGEAAHHRSPYSTFYPP  
 YHSPELATPPGHGTLDNSKSMKPYNYCSAYESFYESTSPECASPFEGPLSPPPINYNIGIFSLKQEETLD  
 YGKNYNYGMHYCAVPPRGPLGQGAMFRLPTDSHFYDHLHRSQSLTMQDELNAVFNH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001109237

**ORF Size:** 1011 bp

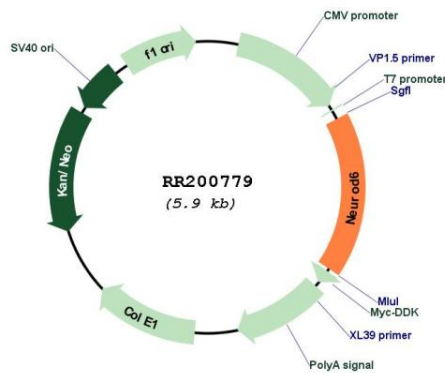
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\_001109237.1, NP\_001102707.1
- RefSeq Size:** 1953 bp
- RefSeq ORF:** 1014 bp
- Locus ID:** 500137
- Cytogenetics:** 4q24
- MW:** 38.7 kDa

**Product images:**



Circular map for RR200779