

Product datasheet for **RR202975**

Nptx2 (NM_001034199) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nptx2 (NM_001034199) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nptx2
Synonyms:	Narp; NP-II; NP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR202975 representing NM_001034199
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCTGGCGCTGCTGACCGCCGGCTGGCGCTCGCCGTGGCCCGGGACAAGCCCAGGATAACCCGATAC
CTGGCAGTCGCTTCGTGTGCACCGCGCTGCCCCCGAAGCGGCGCGCGCCGGCTGCCCGCTGCCCGGAT
GCCCATGCAGGGAGGCGCGCTGAGCCCTGAGGAGGAGCTGCGAGCCGCTGTGCTGCAGCTGCGCGAGACC
GTCGTGCAGCAGAAGGAGACGCTGGGCGCTCAGCGAGAAGCCATCCGAGAAGTACCAGCAAGCTGGCCC
GCTGTGAGGGACTAGCCGGCGTAAGGCGCGGGCACGGGGCCACGGGCAAGGACACCAGGGCGACCT
GCCCGGGACCCGGGCCACGTCGTGGAGCAGCTTAGCCGCTCGCTGCAGACCCCTCAAGGACCGCTTGGAG
AGCCTCGAGCTCCAACCTCACCAACCGCTCTAATGCCGGCTGCCGAGCGACTCCGAGAGGTGCTCC
AGCGGAGGCTGGGGAGCTGGAGAGGCAGTTGCTACGCAAGGTGGCCGAGCTGGAAGACGAGAAGTCCCT
GCTCCACAATGAGACCTCGGCTCACCGCAGAAGACAGAGAACACACTGAATGCACTGCTGCAGAGGGTG
ACTGAGCTGGAGAGAGGCAACAGTGCATTCAAGTACCAGATGCATTCAAAGTGTCCCTCCCTCTCCGTA
CAAACCTACCTATACGGCAAGATCAAGAAGACGTTGCCCGAGCTGTATGCCTTACCATCTGCCTGTGGCT
GCGGTCCAGCGCCTCGCCAGGCATCGGCACGCCATTCTCCTACGCTGTGCCTGGGCAAGCCAATGAGATT
GTGCTGATAGAGTGGGTAACAATCCCATAGAGCTGCTTATCAACGACAAGGTCGCACAGCTGCCCTGT
TTGTCAGCGATGGCAAGTGGCACCATATCTGCATCACCTGGACCACTCGAGACGGCATGTGGGAAGCATT
CCAGGACGGGGAGAAGCTGGGCACCGGGGAGAACCTGGCACCCCTGGCATCCCATCAAGCCAGGGGTGTG
CTCATCTGGGGCAGGACGAGCAGACTGTGGGAGGCAGATTTGATGCCACACAGGCCCTCGTTGGAGAGC
TTAGCCAGTTCAACATATGGGACCGTGTCTCCGGGCACAAGAGATCATCAACATCGCCAACCTGCTCCAC
GAACATGCCTGGAAACATCATCCCATGGGTGGACAACAATGTCGATGTGTTTGGAGGGGCTTCAAGTGG
CCTGTGGAGACGTGCGAAGAGCGTCTCCTGGACTTG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RR202975 representing NM_001034199
Red=Cloning site Green=Tags(s)

MLALLTAGVALAVAAGQAQDNPIPGSRFVCTALPPEAARAGCPLPAMPMQGGALSPEEELRAAVLQLRET
VVQKQKELGAQREAIRELTSKLARCELAGGKARGTGATGKDTMGDLPRDPGHVVEQLSRSLQTLKDRLE
SLELQLHTNASNAGLPSDFREVLQRRLEGELERQLLRKVAELEDKSLLNHNETSAHRQKTENTLNALLQRV
TELERGNSAFKSPDAFKVSLPLRTNYLYGKIKKTLPELYAFTICLWLRSSASPGIGTPFSYAVPGQANEI
VLIEWGNPIELLINDKVAQLPLFVSDGKWHHICITWTTTRDGMWEAFQDGEKLGTEENLAPWHPIKPGGV
LILGQEQDVTGGRFDATQAFVGELESQFNIWDRVLRQEIINIANCSTNMPGNIIPWVDNNVDVFGGASKW
PVETCEERLLDL

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2124_g05.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_001034199

ORF Size: 1296 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 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.

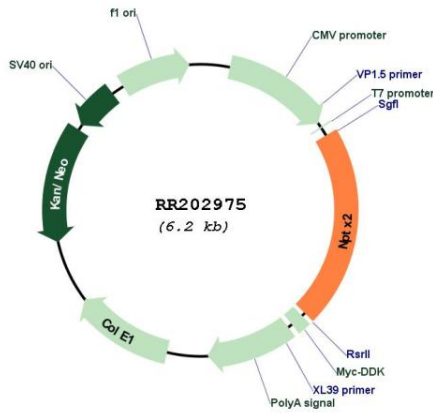
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001034199.1](#), [NP_001029371.1](#)

RefSeq Size:	1906 bp
RefSeq ORF:	1299 bp
Locus ID:	288475
Cytogenetics:	12p11
MW:	47.8 kDa
Gene Summary:	synaptic organizing molecule that mediates aggregation of NMDA receptors via coupling to synaptic AMPA receptors [RGD, Feb 2006]

Product images:



Circular map for RR202975