

Product datasheet for **RR203246**

Nrxn2 (NM_053846) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrxn2 (NM_053846) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nrxn2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203246 representing NM_053846 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTCGGGAGTCGGTGGCGACCGCCACCCAGTTGCCGCCGCTGCTGTTGTTGCTGGCGCTGGTGG
CAGGCGTCCGTGGCTTGGAGTTTGGCGCGGCCCGGGCAGTGGGCTCGCTACGCGCGCTGGGCAGGCGC
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GACGGCGCGACTGCGACTTCTGGAGCTGCTGCTGGTGGACGGGCGCCTGCGGCTGCGCTTACCGTGT
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GACCCGCGACGCGCGGCACGCGCTGGCGGTGGACGGCGAAGCCCGTGGCGCCGAGGTGCGCTCAAAG
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GGCTACCTCTATCTTCTGCTGGACATGGGCTCTGGGGCATCAAGCTGCGGGCGTCCAGCCGAAGGTCA
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 AGGCCAAGAAGAACAAAGACAAAGATATTACGTC

CAAGCTTAACTAGCTAGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATC

TGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAAAC

Protein Sequence:

>RR203246 representing NM_053846
 Red=Cloning site Green=Tags(s)

MALGSRWRPPQLPPLLLLLLALVAGVRGLEFGGGPGQWARYARWAGAASTGELSFSLRTNATRALLLYLD
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 NPCANGGLCTVLAPEVGCDCSHTGFGGKFCSEEHMEGPAHLTLNSEVGSLLFSEGGAGRGGAGNVHQ
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 ARFGLRAIVADPVTFKSRSSYLALATLQAYASMHLEFFQFKTTAPDGLLLFNSGNGNDFIVIELVKGYIHY
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 MFSNLPKLVASRDGFQGLASVDLNGRLPDLIADALHRIGQVERGCDGPSTTCTEESCANQGVCLQQWDG
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 GDYLQLHIDQGTVGVI FNVGTDDITIDEPNIAIVSDGKYHVVRFTSRGGNATLQVDSWPVNERYPAGNFDN
 ERLAIARQRIPIYRLGRVVDEWLLDKGRQLTIFNSQAAIKIGGRDQGRPFQGVSGLYYNGLKVLAALAAES
 DPNVRTEGHLRLVGEGPSVLLSAETTATLLADMATTIMETTTTMTTTTTRRGRSPTMRDSTTQNTDDLL
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 ARRPSSGGPCQAERDSDCEEPVEASGFASGEVFDSSLPPTDDEDFYTFPLVTDRTLLSPRKPAPRPN
 LRTDGATGAPGVLLAPSAPAPNLPAGKMNHRDPLQPLENPPPLGPGVPTAFEP RPPPLRPGVTSVPGFP
 RLPTANPTGPGERGPPGAVEVIRESSSTTGMVVGIVAAAALCILILLYAMYKYRNRDEGSYQVDQSRNYI
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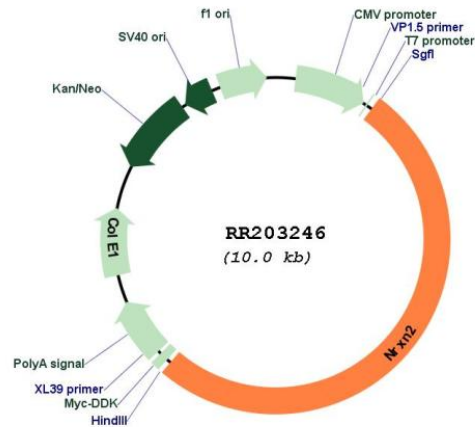
NNNNEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-HindIII

Cloning Scheme:

□

Plasmid Map:


ACCN: NM_053846

ORF Size: 5145 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_053846.1](#), [NP_446298.1](#)

RefSeq Size: 6436 bp

RefSeq ORF: 5148 bp

Locus ID: 116595

UniProt ID: [Q63374](#)

Cytogenetics: 1q43

MW: 185.3 kDa

Gene Summary: neuronal cell recognition molecule; may have a role in synaptogenesis [RGD, Feb 2006]