

Product datasheet for **RR207401**

Rtn4rl1 (NM_181377) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn4rl1 (NM_181377) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rtn4rl1
Synonyms:	Ngrh2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207401 representing NM_181377
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTTCGCAAAGGGTGTGTGGAATTGCTGCTGTTGCTGCTGGTGGAGAGCTACCTCTGAGTGGTG
 GTTGTCCTCGAGACTGTGTGCTACCCCTCGCCCATGACTGTGAGTTGCCAGGCACACAACCTTTGCCGC
 CATCCCCGAGGGCATCCCAGAGGACAGCGAGCGCATCTTCTGCAGAACAAATCACATCACCTTCTCCAG
 CAGGGCCACTTCAGCCCCGCCATGGTACCCTCTGGATCTACTCCAACAACATCACTTTTCATTGCTCCCA
 ACACCTTTGAGGGCTTTGTGCATCTGGAGGAGCTAGACCTTGGAGACAACCGGCAGCTTCGAACGCTGGC
 ACCCGAGACCTTCCAAGGCTGGTGAAGCTTACGCCCTCTACCTCTACAAGTGCAGGACTGAGCTCCCTG
 CCTGCGGGCATCTTTGGTGGCTGCACAGCCTGCAGTACCTCTACTTGCAGGACAACCATATTGAGTACC
 TCCAAGATGACATCTTTGTGGACCTGGTCAACCTCAGTCACTTGTCTCCATGGCAACAAGCTATGGAG
 CCTGGGCCAGGGCATCTCCGGGGCTGGTGAACCTGGACCGTTGCTGCTGCATGAGAACCAGCTACAG
 TGGGTCCACCACAAGGCTTTCCATGACCTCCACAGGCTAACCCACCTCTTCTCTCAACAATAGCCTCA
 CCGAGCTGCAGGGTACTGCCTGGCCCCCTGGTGGCCCTGGAGTTTCTTCGCCTCAATGGGAATGCTTG
 GGACTGTGGTGCCTGGGACGGTCCCTGTGGGAATGGCTGCGAAGGTTCCGTGGCTCCAGCTCTGTTGTC
 CCCTGCGGACTCCAGAGCTGCGGCAAGGCCAGGACCTGAAGTCGCTGAGGGTTGAGGACTTCCGGAAC
 GCACTGGACCAGCGTCTCCTCACCAGATCAAGTCTCACACGCTTAGCACCTCTGACAGGGCTGCCGCAA
 GGAGCACCATCCCTCCCACGGTGCCTCCAGGGACAAGGCCACCCACATGGCCATCTGCCTGGCTCCAGG
 TCAGGTTCCAAGAAGCCAGGCAAGAAGTGCACAGCCACAGGAACCGAAACCAGATCTCTAAGGGGAGCG
 CTGGGAAAGACTTCTGAAGTGCAGGACTATGCCCCGACTATCAGCACAAGTTCAGCTTTGACATCAT
 GCCCACTGCACGACCCAAGAGGAAGGGCAAGTGTGCCCGCAGGACCCCATCCGTGCCCCCAAGTGGGGTG
 CAGCAGGCTCCTCAGGCACGGCCCTCGGGTCTCACTCCTGGCCTGGATACTGGGGCTGGTGGTATCTC
 TCCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207401 representing NM_181377
 Red=Cloning site Green=Tags(s)

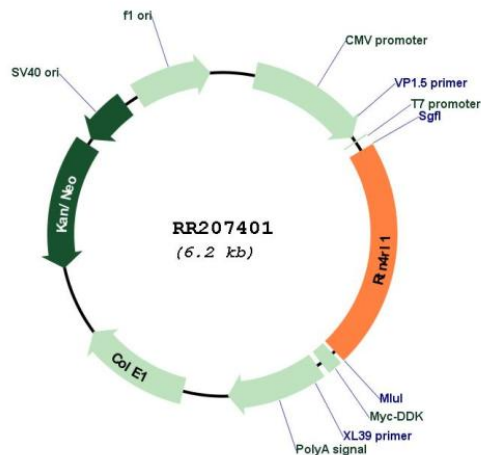
MLRKGCCVELLLLLLAGELPLSGGCPDRDCVCPSPMTVSCQAHNFAAIPGIPEDSERIFLQNNHITFLQ
 QGHFSPAMVTLWIYSNNITFIAPNTFEGFVHLEELDLGDNRLRLAPETFQGLVKLHALYLKCGLSSL
 PAGIFGGLHSLQYLQLQDNHIEYLQDDIFVDLVNLSHLFLHGNKLWLSLGGQIFRGLVNLDRLLLHENQLQ
 WVHHKAFHDLHRLTTLFLFNNSLTELQGDCLAPLVALEFLRLNGNAWDCCGRARSLWEWLRFRGSSSVV
 PCATPELRQGDQLKSLRVEDFRNCTGPASPHQIKSHTLSTSDRAARKEHHPHSHGASRDKGHPHGLPGSR
 SGSKKPGKNCTSHRNRNQISKGSAGKELPELQDYAPDYQHKFSFDIMPTARPKRKGKCARRTPIRAPSGV
 QQASSGTALGVSLLAWILGLVVSLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_181377

ORF Size: 1335 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_181377.3](#), [NP_852042.1](#)

RefSeq Size: 3309 bp

RefSeq ORF: 1338 bp

Locus ID: 303311

UniProt ID: [Q80WD0](#)

Cytogenetics: 10q24

MW: 49.8 kDa

Gene Summary: neuronal receptor; may have a role in the central nervous system [RGD, Feb 2006]