

Product datasheet for **RR205968**

Rtn4rl2 (NM_181380) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn4rl2 (NM_181380) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rtn4rl2
Synonyms:	Ngrh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR205968 representing NM_181380 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCCGGGCTCCGGCGCCTGCTGCAAGGTCTGCCTCAGCCTGCCTCCTGCTGACACTCCTGGCCC
TCCCTCCTGTGACCCCCAGCTGCCCTATGCTCTGCACCTGCTACTCCTCTCCGCCACAGTGAGCTGCCA
GGCCAACAACCTTCTCCTCGGTGCCGCTGTCTTCCACCCAGTACACAGCGACTCTTCTTGCAGAACAAC
CTCATTGCTCACTGCGCCAGGAACCTTTGGGCCAACCTGCTCACCTGTGGCTTTCTCCAACAACC
TCTCCACCATCTACCCTGGCACCTTCCGCCATCTGCAGGCCCTAGAGGAAGTGGACCTCGGTGACAATCG
GCACCTGCGCTCCCTGGAGCCTGACACCTTCCAGGGCCTGGAGAGGCTGCAGTCACTACATCTGTACCGG
TGCCAGCTCAGCAGTCTGCCTGGCAACATCTTCCGAGGCCTGGTACGCTACAGTACCTCTACCTCCAGG
AGAACAGCCTGTCCACCTACAGGATGACTTGTTCGCGGACCTGGCCAACCTGAGCCACCTTTCTCCTCA
CGGGAACCGCCTGCGGCTGCTCACGGAGCACGTGTTCCGCGGCTTGGGCAGCCTGGACCGGCTGTGCTG
CACGGGAACCGGCTGCAGGGCGTACACCGCGCAGCCTTCCACGGTCTCAGCCGCTCACCATCCTTTACC
TGTTCAACAACAGCCTGGCCTCGCTGCCGGGAGAGGCGCTGGTGACCTGCCAGCGCTCGAGTTCCTGCG
GCTCAACGCCAACCCCTGGGCGTGCGACTGCCCGGCTCGGCCGCTCTGGGCTTGGTCCAGCGCGCGGG
GTGTCCAGCTCCGACGTGACCTGCGCCACCCCGCCGAGCGCCAGGGCCGGGACCTGCGCAGCTGCGCG
ACACCGATTTCCAAGCGTGCCCGCCGCCACACCCACGCGCGGCGAGCCGCGCCGCGGCAACAGCTC
TTCCAACCACCTGTACGGCGTGGCCGAGGCGGGGCTCCCCCGCAGACCCATCCACGCTTACCGAGAC
CTGCCCGCGAGGACTCGCGGGGGCTCAGGGCGGGGACGCGCCCACTGAGGACGACTACTGGGGGGCT
ACGGCGGCGAGGACCAGCGAGGCGAGCAGAGCTGTCCCGGGCGCGTCCAGGCGCCGCGGACTCGCG
TGGCCCCGTGCTCTCGGCCGGGCTGCGCACCCCTGCTCTGCCTCTTGCTCCTGGCTCCCCATCACCTC

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR205968 representing NM_181380
 Red=Cloning site Green=Tags(s)

MLPGLRRLQLQPASACLLLTLLALPPVTPSCPMLCTCYSSPPTVSCQANNFSSVPLSLPPSTQRLFLQNN
 LIRSLRPGTFGNLLTLWLFNNLSTIYPGTFRHLQALEELDLGDNRHLSLEPDTFQGLERLQSLHLR
 CQLSSLPGNIFRGLVSLQYLQENSLHLQDDLADLANLSHLFLHGNRLRLLTEHVFRGLGSLDRLLL
 HGNRLQGVHRAAFHGLSRLTILYLFNNLSLAPGEALADLPALEFLRLNANPWACDCRARPLWAWFQAR
 VSSSDVTCATPPERQGRDLRDLRDTDFQACPPPTPTRPGSRARGNSSNHLYGVAEAGAPPADPSTLYRD
 LPAEDSRGRQGGDAPTEDDYWGYYGGEDQRGEQTCPGAACQAPADSRGPVLSAGLRTPLLCLLLLAPHHL

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_181380

ORF Size: 1260 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_181380.2](#), [NP_852045.1](#)

RefSeq Size: 1304 bp

RefSeq ORF: 1263 bp

Locus ID: 311169

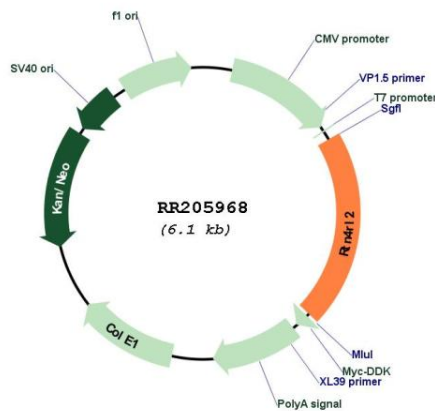
UniProt ID: [Q80WD1](#)

Cytogenetics: 3q24

MW: 46.2 kDa

Gene Summary: member of the reticulon 4 receptor family of proteins that may be involved in regulation of axonal regeneration [RGD, Feb 2006]

Product images:



Circular map for RR205968