

Product datasheet for **RR205807**

Nrp1 (NM_145098) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrp1 (NM_145098) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nrp1
Synonyms:	Nrp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR205807 representing NM_145098
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAGGGGGCTGCCGTTGCTGTGCGCCACGCTCGCCCTTGCCCTCGCCCTGGCGGGCGCTTCCGCA
 GCGATAAATGTGGCGGGACTATAAAAAATTGAAAACCCGGGTACCTTACATCTCCCGCTACCCCTATT
 TTACCATCCAAGTGAGAAATGTGAATGGCTAATCCAAGCTCCGGAGCCCTACCAGAGAATCATGATCAAC
 TTCAACCCACATTTTCGATTTGGAGGACAGAGACTGCAAGTATGACTATGTGGAAGTGATCGATGGAGAGA
 ATGAAGGTGGCCGCTGTGGGGAAGTTCTGTGGGAAGATCGCACCTTACCTGTGGTGTCTTCAGGGCC
 ATTTCTCTTCATCAAATTTGCTCTGACTATGAGACCCACGGGGCAGGATTTTCCATCCGCTATGAAATC
 TTCAAGAGAGGGCCGAATGTTCTCAGAACTATACAGCACCTACTGGAGTGATAAAGTCCCTGGTTCC
 CTGAAAAATACCCCAACAGCTTGGAGTGCACCTACATCATCTTTCACCAAAGATGTCTGAGATAATCCT
 AGAGTTTGAAAGTTTGGACTGGAGCAAGACTCAAATCCTCCCGAGGAGTGTTCTGTGCTATGACCGG
 CTGGAGATCTGGGATGGATTCCCTGAAGTTGGCCCTCACATTGGGCGTACTGTGGGCAGAAAACCTCTG
 GCCGGATCCGCTCCTCTCAGGCATTCTATCCATGGTCTTCTACACTGACAGCGCAATAGCAAAGGAAGG
 TTTCTCAGCCAACACAGCGTGCAGAGCAGCATCTCTGAAGATTTCAAGTGTATGGAGGCTCTGGGC
 ATGGAATCTGGAGAGATCCATTCTGACCAGATCACTGCATCTTCCAGTATGGTACCAACTGGTCTGTTG
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 AAGTAGAAGTGCCTACAGCTGGACCCACGACACCAATGGGAACCCGTGGACGAGTGTGACGATGACCA
 GGCAACTGCCACAGTGGCACAGGTGATGACTTCCAGCTCACAGGAGGCACCACTGTCCTGGCCACAGAG
 AAGCCAACCATTATAGACAGCACCATCCAATCAGAGTCCCGACATACGGTTTTAACTGCGAGTTTGGCT
 GGGGCTCTCACAAGACATTCTGCCACTGGGAACATGACAGCCACGCGCAGCTCAGGTGGAGGGTGTGAC
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 GATAAACTGAACCCACAGAGTAATTACTCAGAGGCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >RR205807 representing NM_145098
 Red=Cloning site Green=Tags(s)

MERGLPLLCATLALALAGAFRSKCGGTIKIENPGYL TSPGYPHSYHPSEKCEWLIQAPEPYQRIMIN
 FNPHFLEDRDCKYDYVEIDGENEGRLWGKFCGKIAPSPVVSSGPFLFIKFSVDYETHGAGFSIRYEI
 FKRGEPCSQNYTAPTGVIKSPGFPEKYPNSELECTYIIFAPKMSEIILEFESFDLEQDSNPPGGVFCRYDR
 LEIWDGFPEVGPVPHIGRYCGQKTPGRIRSSSILSMVFYTDIAIAKEGFSANYSVLQSSISEDFKCMEALG
 MESGEIHSQDQITASSQYGTNWSVERSRLNYPENGWTPGEDSYREWIQVDLGLLRFVTAVGTQGAISKETK
 KKYVVKTYRVDISSNGEDWITLKEGNKAIIFQGNTNPTDVVFGVFPKPLITRFVRIKSPASWETGISMRFE
 VYGCKITDYPGSGMLGMVSLISDSQITASNQGDNRNMPENIRLVTSTRTGVALPPSPHPYINEWLQVDLG
 DEKIVRGVVIQGGKHRENKVFMRKFKIAYSNNGSDWKIMDDSKRKAKSFEENNYDTPELRAFTPLSTR
 FIRIYPERATHSGLGRMELLGCEVEVPTAGPTTPNGNPVDECDQDQANCHSGTGDDFQLTGTTVLATE
 KPTIIDSTIQSEFPTYGFNCFEFGWGSHTFCHWEHDSHAQLRWRVLTSTKGPIDHTGDGNFIYSQADEN
 QKQKVARLVSPVVYSQSSAHCMTFWYHMSGSHVGLTRVKLHYQKPEEYDQLVWVVGHQGDHWKEGRVLL
 HKSLKLYQVIFEGEIGKGNLGGIAVDDISINNHIPQEDCAKPTDLKKNTEIKIDETGSTPGYEEGKGDK
 NISRKPGNVLKTLDPILITIIAMSALGVLLGAVCGVVLACACWHNGMSERNLSALENYNFELVDGVKLLK
 DKLNPNQSNYSEA

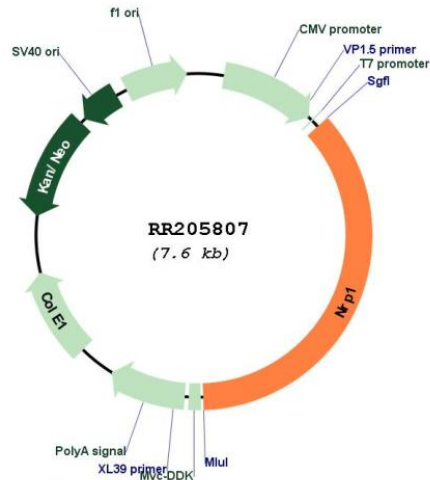
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_145098

ORF Size: 2766 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_145098.2](#), [NP_659566.1](#)

RefSeq Size: 3862 bp

RefSeq ORF: 2769 bp

Locus ID: 246331

UniProt ID: [Q9QWJ9](#)

Cytogenetics: 19q12

MW: 103.1 kDa

Gene Summary: transmembrane protein that acts as a receptor for semaphorin III; may play a role in neuronal development [RGD, Feb 2006]