

Product datasheet for **RR201103**

Ntrk1 (NM_021589) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ntrk1 (NM_021589) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ntrk1
Synonyms:	Trk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR201103 representing NM_021589
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCGAGGCCAGCGGCACGGGCAGCTGGGTTGGCATCGCCCGCGCGGGGCTAGGCGGTCTGGTGA
CTTCGTTGATGCTGGCTTGTGCTTGCGCCGATCCTGTCGTGAGACCTGCTGTCCCGTGGGCCCTCGGG
GTTGCGCTGCACCAAGGCAGGGACCCTGAATACCTCCGCGGCCTGCGGGGCGCCGGGAACCTGACGGAG
CTCTATGTGAAAAACAGCGGGATCTGCAACGCCTGGAGTTTGAGGACCTGCAGGGCCTGGGGGAGTTGA
GAAGCCTAACCATCGTGAAGAGTGGCCTCCGCTTTGTGGCCCTGATGCCTTCCATTTACCCCTCGGT
CAGTCACCTGAATCTCCTCCAATGCTTTGGAGTCCCTCCTGGAAAACCTGTGCAGGGCCTCCCTA
CAGGACTTGACCCTGTCAGGGAACCCACTGCACGTTCCTGTGCCCTATTGTGGTCCAGCGCTGGGAGC
AGGAGGATTTGTGGTGTGTATACACAAAAGCTTCAGGGCTCTGGTCTGGAGACCAGTTCCTCCCACT
GGGACACAACAACAGTTGTGGTGTACCCTCAGTGAAGATCCAGATGCCCAATGACTCTGTGGAAGTGGG
GATGACGTTTTTCTGCAGTGCCAGGTGGAGGGCAGGCCCTACAGCAGGCTGACTGGATCCTCACAGAGC
TGAAGGGACAGCCACCATGAAGAAATCTGGAGATCTGCCATCCCTGGGGCTAACTCTGGTCAATGTCAC
CAGTGATCTCAACAAGAAGAATGTGACGTGCTGGGCAGAGAATGATGTGGGCCGGGCTGAGGTCTCTGTC
CAAGTCAGCGTCTCCTTCCCAGCCAGTGTGCATCTGGGCAAGCCGTGGAACAGCATCACTGGTGCATTC
CCTTCTCTGTGGACGGGCAGCCAGCACCCTCCCTGCGCTGGTTCTTCAACGGCTCTGTGCTCAATGAGAC
CAGCTTCACTTCACTCAGTTCTTGGAGTCAAGCCTGACCAATGAGACCATGCGGCATGGCTGCCTTCGC
CTCAACCAAGCCACGCATGTCAACAACGGGAACCTACACCCTGCTGGTCCCAACCCCTATGGCCAGGCTG
CTGCCTCCATCATGGCTGCCTTTATGGACAACCTTTTGTAGTTCAACCCCTGAGGACCCCACTCCCTGTCTC
CTTCTCGCCAGTGGACACTAACAGCACATCAAGAGACCCAGTGGAGAAGAAGGACGAAACACCTTTTGGG
GTCTCTGTGGCTGTGGGCTGGCCGTCTCCGCCCTCTTCTTTCTGCCCTCCTCCTAGTGTCAACA
AATGTGGACAGAGGAGCAAAATTTGGGATCAACGCCCTGCTGTGCTGGCGCCAGAGGATGGGCTGGCCAT
GTCCCTACACTTCATGACACTGGGTGGCAGTTCCTTTCCCTACTGAGGGCAAAGGCTCCGGACTCCAG
GGCCACATCATGGAGAACCCACAGTACTCAGTGATACCTGTGTCCACCATCAAGCGCCAGGACATCA
TTCTCAAGTGGGAGCTAGGGGAGGGAGCCTTTGGAAAGGTCTTTCTTGTGAGTGTACAACCTTCTGAA
TGATCAGGACAAGATGCTGGTGGCTGTCAAGGCACTGAAGGAGACATCTGAGAATGCTCGTCAGGACTTC
CATCGTGAGGCAGAGCTGCTCACCATGCTACAGCACCAACACATCGTACGCTTCTTTGGAGTCTGCACGG
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CGGACCTGATGCAAACTGCTGGCTGGCGGCGAGGATGTGGCTCCTGGTCTTTGGGCTTGGGCAGCTT
CTGGCTGTGGCTAGCCAGGTGGCTGCTGGTATGGTGTACCTAGCCAGCCTGCACTTTGTGCACCGGGACC
TGGCCACACGCAACTGTCTGGTGGGTGACGGACTAGTGGTCAAGATTGGAGACTTCGGCATGAGCAGGGA
CATCTACAGCACAGACTACTACCGTGTGGGAGGTGCGACCATGCTGCCATCCGCTGGATGCCTCCAGAG
AGCATCCTCTACCGCAAGTTCAGCACCGAGAGTGTGTGGAGCTTCGGGGTGGTGTCTGGGAGATCT
TCACCTATGAAAGCAACCTGGTACCAGCTCTCAACACTGAGGCGATCGAGTGCATCACGCAGGGCCG
GGAGCTGGAGCGGCCGCGCCCTGCCCTCCTGATGTCTACGCCATCATGCGCGGCTGCTGGCAGCGTGAG
CCGCAACAGCGCCTCAGCATGAAGGATGTGCACGCGGGCTGCAGGCCTTGGCACAGGCGCCACCGAGTT
ACCTGGACGTTCTGGGCACCTGGACGTTCTGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201103 representing NM_021589
Red=Cloning site Green=Tags(s)

MLRGQRHGQLGWHRPAAGLGGGLVTSMLACACAASCRTCCPVGPSGLRCTRAGTLNLRGLRGAGNLTE
LYVENQRDLQRLEFEDLQGLGELRSLTIKSGLRVAPDAFHFTPRLSHLNLSSNAESLSWKTVQGLSL
QDLTSLGNPLHCSCALLWLRWEQEDLCGVYTKLQSGSGDQFLPLGHNNSCGVPSVKIQMPNDSVEVG
DDVFLQCQVEGQALQQADWILTELEGTATMKKSGDLPSLGLTLVNVTSDLNKKNVTCWAENDVGRAEVS
QVSVSFPASVHLGKAVEQHHCIPFSVDGQPAPSLRWFNGSVLNETSFIFTQFLESALTNETMRHGCLR
LNQPTHVNNGNYTLLAANPYGQAAASIMAAFMDNPFEPEDPIPVSFSPVDTNSTSRDPVEKKDETPFG
VSVAVGLAVSAALFLSALLLVLNKCGQRSKFGINRPAVLAPEDGLAMSLHFMTLGGSSLSPTEGKGSGLQ
GHIMENPQYFSDTCVHHIKRQDIILKWELGEGAFGKVFLAECYNLLNDQDKMLVAVKALKETSEARQDF
HREAELLTMLQHQHIVRFFGVCTEGGPLLMVFEYMRHGDLNRFLRSHGPDAKLLAGGEDVAPGGLGLGQL
LAVASQVAAGMVYLAHLFVHRDLATRNLVGQGLVVKIGDFGMSRDIYSTDYYRVGGRTMLPIRWMPPE
SILYRKFSTESDVWSFGVVLWEIFTYKQPWYQLSNTEAIECITQGRELERPRACPPDVYAIMRGCWQRE
PQQRSLMKDVHARLQALAQAPPSYLDVLTWTFW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1699_e07.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_021589

ORF Size: 2397 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 Size: 2633 bp

RefSeq ORF: 2400 bp

Locus ID: 59109

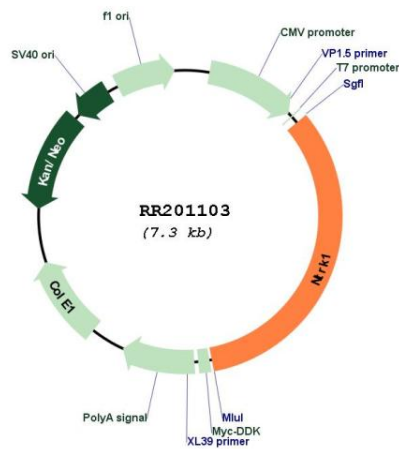
UniProt ID: [P35739](https://www.uniprot.org/uniprot/P35739)

Cytogenetics: 2q34

MW: 87.9 kDa

Gene Summary: a protooncogene; receptor that binds to nerve growth factor (NGF) [RGD, Feb 2006]

Product images:



Circular map for RR201103