

Product datasheet for **RR216757**

Ntrk2 (NM_001163168) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ntrk2 (NM_001163168) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ntrk2
Synonyms:	RATTRKB1; Tkrb; trk-B; trkB; TRKB1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR216757 representing NM_001163168
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGCCTGGCCGAGGTGGCATGGACCCGCCATGGCGGGCTCTGGGGCTTATGCTTGTGCTTGG
 GCTTCTGAGGGCTTCTCTTGCCTGCCCATGTCTGCAAATGCAGCACCACTAGGATTTGGTGTACCGA
 GCCTTCTCCTGGCATCGTGGCATTTCAGAGTTGGAACCTAACAGCATTGACCCAGAGAACATCACCGAA
 ATTCTCATTGCAAACCAGAAAAGGTTAGAAATCATCAATGAAGATGATGTCGAAGCTTACGTGGGCTGA
 AAAACCTTACAATTGTGGATTCCGGCTTAAAGTTTGTGGCTTACAAGGCTTTCTGAAGAACGGCAACCT
 GCGGCACATCAATTTCACTCGAAACAAGCTGACGAGTTTGTCCAGGAGACATTTCCGCCACCTTGACTTG
 TCTGACCTGATCCTGACGGTAATCCGTTACGTGTTCCCTGTGACATCATGTGGCTCAAGACTCTCCAGG
 AGACGAAATCCAGCCCCGACACTCAGGATTTGTATTGCCTCAATGAGAGCAGCAAGAATACCCCTCTGGC
 GAACCTGCAGATCCCAATTGTGGTCTGCCGTCTGCACGTCTGGCCGCTCCTAACCTCACGGTGGAGGAA
 GGGAACTCTGTGACCATTTCCTGACGCGTGGGGGTGACCCGCTCCACCTTGTACTGGGACGTTGGGA
 ATTTGGTTTCAAACACATGAATGAAACAAGCCACACACAGGGCTCCTTAAGGATAACAAACATTTTCATC
 GGATGACAGTGGGAAACAAATCTTGTGTGGCAGAAAACCTCGTTGGAGAAGATCAAGACTCTGTGAAC
 CTCACTGTGCATTTTGCACCAACCATCACATTTCTCGAATCTCCAACCTCAGACCACCACTGGTGCATCC
 CATTCACTGTGAGAGGCAACCCCAAGCCAGCACTTCAGTGGTTCTACAACGGAGCCATACTGAATGAATC
 CAAGTACATCTGTACAAAATACACGTCACCAATCACACGGAGTACCACGGCTGCCTCCAGCTGGATAAC
 CCCACTCATGAATAATGGAGACTACACCCTAATGGCCAAGAATGAATATGGGAAGGACGAGAGACAGA
 TTTCTGCTCACTCATGGCCGGCTGGAGTTGACTATGAGACAAACCCAAATACCTTGAAGTCTCTA
 TGAAGACTGGACCACGCCAACTGACATCGGGGATACTACAAACAAAAGTAAATGAGATCCCCTCCAGGAT
 GTTGCTGACCAAAACCAATCGGGAGCATCTCTCGGTCTATGCCGTGGTGGTATTGCCTCTGTGGTAGGAT
 TCTGCCTGCTGGTGTGCTTCTGCTCAAGTTGGCAGACATTCAGTTTGGCATGAAAGGTTTTGT
 TTTGTTTCATAAGATCCCCTGGATGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216757 representing NM_001163168
 Red=Cloning site Green=Tags(s)

MSPWPRWHGPAMARLWGLCLLVLFWRASLACPMSCCKSTTRIWCTEPPGIVAFPRLEPNSIDPENITE
 ILIANQKRLIINEDDVEAYVGLKNLTI VDSGLKFVAYKAFKNGNLRHINFTRNKLTSLSRRHFRHLDL
 SDLILTGPNFTCSCDIMWLKTLQETKSSPDTQDLYCLNESSKNTPLANLQIPNCGLPSARLAAPNLVVEE
 GKSVTISCSVGGDPLPTLYWDVGNLVSKHMNETSHTQGLRITNISDDSGKQISCV AENLVGEDQDSVN
 LTVHFAPTITFLESPTSDDHHCIPFTVRGNPKPALQWFYNGAILNESKYICTKIHVNTNHT EYHGCLQLDN
 PTHMNGDYTLMAKNEYGKDERQISAHFMGRPGVDYETNPNYPEVLYEDWTTPTDIDGDTTNKSNEIPSTD
 VADQTNREHLSVYAVVVIASVVGFCLLVMLLLKLARHSKFGMKGFVLFHKIPLDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

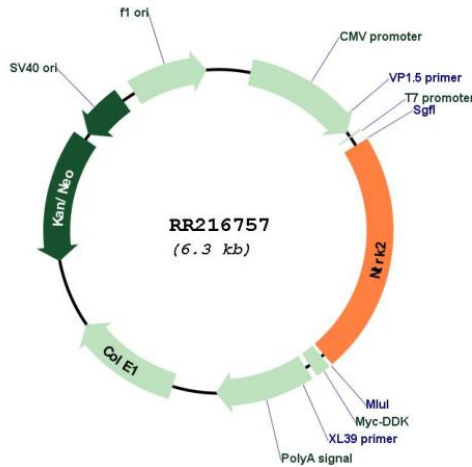
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001163168

ORF Size: 1428 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_001163168.2](#), [NP_001156640.1](#)

RefSeq Size: 6931 bp

RefSeq ORF: 1431 bp

Locus ID: 25054

UniProt ID: [Q63604](#)

Cytogenetics: 17p14

MW: 53.2 kDa

Gene Summary: receptor for brain-derived neurotrophic factor (BDNF) [RGD, Feb 2006]