

## Product datasheet for **RR206400**

### **Ntrk2 (NM\_012731) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ntrk2 (NM_012731) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ntrk2
Synonyms:	RATTRKB1; Tkrb; trk-B; trkB; TRKB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RR206400 representing NM\_012731  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGCCTGGCCGAGGTGGCATGGACCCGCCATGGCGGGCTCTGGGGCTTATGCTTGCTGGTCTTGG  
 GCTTCTGAGGGCTTCTCTTGCCTGCCCATGTCTGCAAATGCAGCACCACTAGGATTTGGTGTACCGA  
 GCCTTCTCCTGGCATCGTGGCATTTCAGAGTTGGAACCTAACAGCATTGACCCAGAGAACATCACCGAA  
 ATTCTCATTGCAAACCAGAAAAGGTTAGAAATCATCAATGAAGATGATGTCGAAGCTTACGTGGGGCTGA  
 AAAACCTTACAATTGTGGATTCCGGCTTAAAGTTTGTGGCTTACAAGGCTTTCTGAAGAACGGCAACCT  
 GCGGCACATCAATTTCACTCGAAACAAGCTGACGAGTTTGTCCAGGAGACATTTCCGCCACCTTGACTTG  
 TCTGACCTGATCCTGACGGTAATCCGTTACGTGTTCCGTGACATCATGTGGCTCAAGACTCTCCAGG  
 AGACGAAATCCAGCCCCGACACTCAGGATTTGTATTGCCTCAATGAGAGCAGCAAGAATACCCCTCTGGC  
 GAACCTGCAGATCCCAATTGTGGTCTGCCGTCTGCACGTCTGGCCGCTCCTAACCTCACGGTGGAGGAA  
 GGGAACTCTGTGACCATTTCCTGACGCTCGGGGGTGACCCGCTCCACCTTGTACTGGGACGTTGGGA  
 ATTTGGTTTCAAACACATGAATGAAACAAGCCACACACAGGGCTCCTTAAAGATAACAAACATTTTCATC  
 GGATGACAGTGGGAAACAAATCTTGTGTGGCAGAAAACCTCGTTGGAGAAGATCAAGACTCTGTGAAC  
 CTCACTGTGATTTTGCACCAACCATCACATTTCTCGAATCTCCAACCTCAGACCACCACTGGTGCATCC  
 CATTCACTGTGAGAGGCAACCCCAAGCCAGCACTTCAGTGGTCTACAACGGAGCCATACTGAATGAATC  
 CAAGTACATCTGTACAAAATACACGTCACCAATCACACGGAGTACCACGGCTGCCTCCAGCTGGATAAC  
 CCCACTCATGAATAATGGAGACTACACCCTAATGGCCAAGAATGAATATGGGAAGGACGAGAGACAGA  
 TTTCTGCTCACTTCATGGGCCGGCTGGAGTTGACTATGAGACAAACCCAAATACCTTGAAGTCTCTA  
 TGAAGACTGGACCACGCCAACTGACATCGGGGATACTACAAACAAAAGTAAATGAGATCCCTCCACGGAT  
 GTTGCTGACCAAACCAATCGGGAGCATCTCCTGCTATGCCGTGGTGGTATTGCCTCTGTGGTAGGAT  
 TCTGCCTGCTGGTGTGCTTCTGCTCAAGTTGGCAGACATTCGAAGTTTGGCATGAAAGGCCCAGC  
 TTCCGTGATCAGCAACGACGATGACTCTGCCAGCCCTCTCCACCACATCTCCAACGGGAGCAACACTCCG  
 TCTTCTCGAGGGCGGGCCGATGCTGTGATCATTGGGATGACCAAGATCCCTGTATTGAAAACCCCC  
 AGTACTTCGGTATCACCACAGCCAGCTCAAGCCGGACACATTTGTTTCCAGCAGTCAAGAGACACAACAT  
 CGTTCTGAAGAGGGAGCTTGGAGAAGGAGCCTTTGGGAAAGTTTCTAGCGGAGTGCTATAACCTCTGC  
 CCCGAGCAGGATAAGATCCTGGTGGCCGTGAAGACGCTGAAGGACGCCAGCGACAATGCTCGCAAGGACT  
 TTCATCGGAAGCCGAGCTGCTGACCAACCTCCAGCAGCAGCATTGTCAAGTTCTACGGTGTCTGTGT  
 GGAGGGCGACCACTCATCATGGTCTTTGAGTACATGAAGCACGGGGACCTCAACAAGTTCTTAGGGCA  
 CACGGGCCAGATGCAAGTCTGATGGCAGAGGTAACCCGCCACCGAGCTGACGCAGTCCGAGATGCTGC  
 ACATCGCTCAGCAATCGCAGCAGGATGGTCTACCTGGCATCCCAACACTTCGTGCACCGAGACCTGGC  
 CACCCGGAAGTCTTGGTAGGAGAGAACCTGCTGGTAAAATTGGGGACTTCGGGATGTCCCGGGATGTA  
 TACAGCACCGACTACTACCGGTTGGTGGCCACACAATGTTGCCATCCGATGGATGCCTCCAGAGAGCA  
 TCATGTACAGGAAATTCACCACCGAGAGTGACGCTCTGGAGCTGGGAGTTGTGTTGTGGGAGATCTTAC  
 CTACGGCAAGCAGCCCTGGTATCAGCTATCAAACAACGAGGTGATAGAATGCATCACCCAGGGCAGAGTC  
 CTTACGGCCCTCGCACGTGTCCCGAGGAGGTGACGAGCTGATGCTGGGATGCTGGCAGCGGGAACCCAC  
 ACACAAGGAAGAACATCAAGAACATCCACACACTCCTTCAGAACTTGGCGAAGGGCTCGCCGCTACCT  
 GGACATCCTAGGC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206400 representing NM\_012731  
 Red=Cloning site Green=Tags(s)

MSPWPRWHGPAMARLWGLCLLVLGFWRASLACPMSCCKCSTTRIWCTEPPGIVAFPRLEPNSIDPENITE  
 ILIANQKRLEIINEDDVEAYVGLKNLTI VDSGLKFVAYKAFKNGNLRHINFTRNKLTSLSRRHFRHLDL  
 SDLILTGNPFTCSCDIMWLKTLQETKSSPDTQDLYCLNESSKNTPLANLQIPNCGLPSARLAAPNLVVEE  
 GKSVTISC SVGGDPLPTLYWDVGNLVSKHMNETSHTQGSLRITNIISSDDSGKQISCVAENLVGEDQDSVN  
 LTVHFAPTITFLESPTSDDHWCIPFTVRGNPKPALQWFYNGAILNESKYICTKIHVNTNHTYHGCLQLDN  
 PTHMNGDYTLMAKNEYGKDERQISAHFMGRPGVDYETNPNYPEVLYEDWTTPTDIGDTTNKSNEIPSTD  
 VADQTNREHLSVYAVVVIASVVGFCLLVMLLLKLARHSKFGMKGPASVISNDDDSASPLHHISNGSNTP  
 SSEGGPDAVIGMTKIPVIENPQYFGITNSQLKPDFTFVQHIKRHNIVLKRELGEFAGKVF LAECYNLC  
 PEQDKILVAVKTLKDASDNARKDFHREAELLTNLQHEHIVKFYGVCEGDPLIMVFEYMKHGDNLKFLRA  
 HGPDAVLMAEGNPPTELTQSQMLHIAQQIAAGMVYLASQHFVHRDLATRNCLVGENLLVKIGDFGMSRDV  
 YSTDYYRVGGHTMLPIRWMPPEIMYRKFTTESDVVSLGVVLEIFTYQKQPWYQLSNNEVIECITQGRV  
 LQRPRTCPQEVYELMLGCWQREPHTRKNIKNIHTLLQNLAKASPVYLDILG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM\_012731

ORF Size: 2463 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\\_012731.2](#), [NP\\_036863.1](#)

**RefSeq Size:** 4750 bp

**RefSeq ORF:** 2466 bp

**Locus ID:** 25054

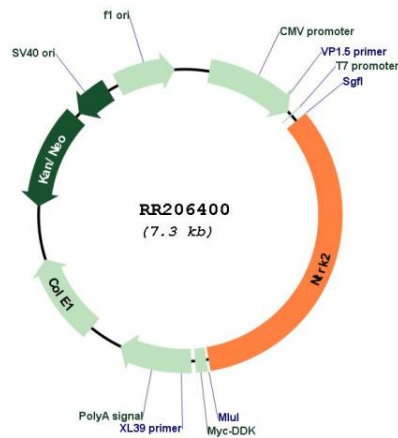
**UniProt ID:** [Q63604](#)

**Cytogenetics:** 17p14

**MW:** 92.2 kDa

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

### Product images:



Circular map for RR206400