

Product datasheet for **MC219707**

Ntrk3 (NM_182809) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ntrk3 (NM_182809) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ntrk3
Synonyms:	AW125844; Ntrk3_tv3; TrkC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219707 representing NM_182809
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATGTCTCTCTTTGCCAGCCAAGTGTAGTTTCTGGCGGATTTTCTGCTGGGAAGCGTCTGGCTGG
ACTATGTGGGCTCCGTGCTGGCTTGCCCTGCAAATTGTGTCTGCAGCAAGACTGAGATCAATTGCCGGCG
GCCGGACGATGGGAACCTCTCCCTCTCCTGGAAGGGCAGGATTCAGGGAACAGCAATGGGAACGCCAGC
ATCAACATTACGGACATCTCAAGGAATACACTCCATACACATAGAGAAGTGGCAGGCCTGCACACAC
TCAATGCTGTGGACATGGAGCTTACACGGGACTCCAGAAGCTGACCATCAAGAATTCTGGACTCCGGAA
CATCCAGCCCAGAGCCTTCGCCAAGAACCCCCACTTGCGTTATATAAACTTGTCAAGTAACCGGCTCACC
ACACTCTCCTGGCAGCTTCCAGACGCTGAGCCTTCGGGAATTGAGACTGGAGCAGAATCTTCAACT
GCAGCTGTGACATCCGCTGGATGCAGCTGTGGCAGGAACAGGGGGAGGCGCGGCTGGACAGCCAGAGCCT
TACTGCATCAGTCTGATGGCTCCCACTCCCCCTCTTCGCATGAACATCAGTCAGTGTGATCTCCCA
GAGATCAGTGTGAGCCAGTCAACCTGACTGTCCGAGAAGGAGACAATGCCGTGATCACTTGCAATGGCT
CTGGCTCTCCTTTGCCTGATGTGGACTGGATAGTCACTGGGCTGCAGTCCATCAACACCCACCAGACCAA
TCTGAACTGGACCAATGTACATGCCATCAACTGACCCTGGTGAACGTGACGAGCGAGGACAATGGCTTC
ACCCTGACGTGCATTGCAGAGAAGCTGGTGGGCATGAGCAATGCCAGTGTGCTCTCACTGTCTACTACC
CTCCACGTGTGGTGGCTGGTGGAGCCTGAGGTACGCCCTGGAACATTGCATTGAGTTTGTGGTGGCTGG
CAACCCGACACCCACGCTCCACTGGCTGTACAATGGACAGCCATTGAGGGAGTCCAAGATCATTACATG
GACTACTACCAGGAGGGGAGGTCTCAGAGGGCTGCCTGCTCTTCAACAAGCCCACCCACTACAACAATG
GCAACTACACCCCTATTGCTAAGAATGCCCTGGGCACGGCCAACCAGACCATCAACGGCCACTTCTGAA
GGAGCCCTTCCAGAGAGCACAGATTTCTTTGACTTTGAGTCTGATGCGAGCCCTACACCTCCTATCACT
GTGACCCACAAACCAGAGGAAGACACTTTTGGGTGTCCATAGCAGTCCGACTTGTCTGCCTTTGCCTGCG
TCCTTCTGGTGGTTCTCTTTATCATGATCAACAAGTATGGTCCGCCGTCCAAATTTGGAATGAAGGGTCC
TGTGGCTGTTATCAGTGGAGAGGAGGACTCAGCCAGCCCACTGCATCACATCAACCATGGCATCACTACA
CCATCATCGTTGGATGCTGGCCTGACACAGTGGTCATTGGCATGACCCGCATCCAGTCATTGAGAACC
CCCAGTACTTCCGTCAGGGTCACAATTGCCACAAGCCAGACACATGGGTCTTTTCAAACATAGACAATCA
TGGGATATTAACCTGAAGGACAATAGAGATCATCTAGTCCCATCACTCACTATATATAGAGGAACCT
GAGGTCCAGAGTGGGATGTGTCTTACCAAGGTCACATGGTTTCAGAGAAATTATGTTGAATCCAATAA
GCCTTCCGGACATTCCAAGCCTTAACCATGGCATCTATGTTGAGGATGTCAATGTTTATTTAGCAA
AGGACGTCATGGCTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_182809
Insert Size: 1839 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_182809.2](#), [NP_877961.1](#)

RefSeq Size: 3847 bp

RefSeq ORF: 1839 bp

Locus ID: 18213

UniProt ID: [Q6VNS1](#)

Cytogenetics: 7 44.01 cM

Gene Summary: Receptor tyrosine kinase involved in nervous system and probably heart development. Upon binding of its ligand NTF3/neurotrophin-3, NTRK3 autophosphorylates and activates different signaling pathways, including the phosphatidylinositol 3-kinase/AKT and the MAPK pathways, that control cell survival and differentiation.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (2) differs in the CDS and the 3' UTR, compared to variant 1. This results in a shorter isoform (b) with a distinct C-terminus, compared to isoform a.
 Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.