

Product datasheet for **MR226356**

Ntrk3 (NM_182809) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ntrk3 (NM_182809) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR226356 representing NM_182809
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGTCTCTCTTTGCCAGCCAAGTGTAGTTTCTGGCGGATTTTCTGCTGGGAAGCGTCTGGCTGG
 ACTATGTGGGCTCCGTGCTGGCTTGGCCCTGCAAATTGTGTCTGCAGCAAGACTGAGATCAATTGCCGGCG
 GCCGGACGATGGGAACCTCTCCCTCTCCTGGAAGGGCAGGATTCAGGGAACAGCAATGGGAACGCCAGC
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 ACCCTGACGTGCATTGCAGAGAAGCTGGTGGGCATGAGCAATGCCAGTGTGCTCTCACTGTCTACTACC
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 CCCAGTACTTCCGTCAGGGTCACAATGGCCACAAGCCAGACACATGGGTCTTTTCAAACATAGACAATCA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

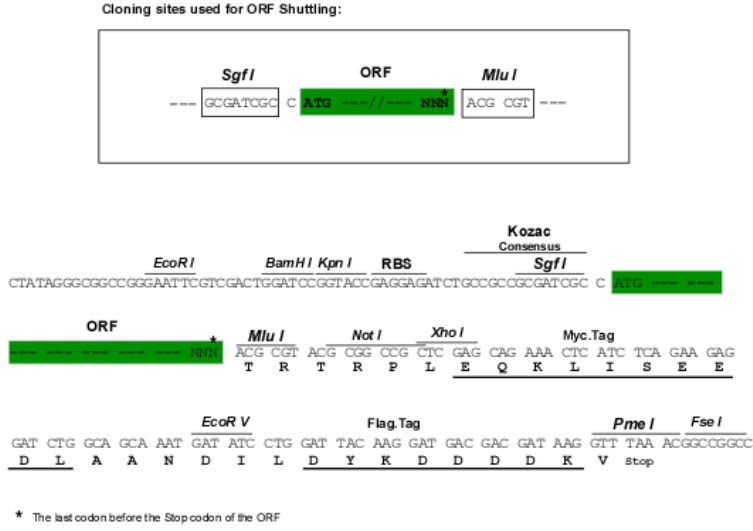
>MR226356 representing NM_182809
 Red=Cloning site Green=Tags(s)

MDVSLCPAKCSFWRIFLLGSVWLDYVGSVLACPANCVCSKTEINCRPPDDGNLFPILLEQDQSGNSNGNAS
 INITDISRNITSIHIENWRGLHTLNAVDMELYTGLQKLTIKNSGLRNIQPRAFAKNPHLRYINLSSNRLT
 TLSWQLFQTLRELRLEQNFFNCSDIRWMQLWQEQGEARLDSQSLYCSADGSQLPLFRMNISQCDLP
 EISVSHVNLTVREGDNAVITCNGSGSPLPDVDWIVTGLQSIINTHQTNLNTNVHAINLTLVNVTSEDNGF
 TLTICIAENVVGMNASVALTVYPPRVVSLVEPEVRLEHCIEFVVRGNPTPLHWLYNGQPLRESKIIHM
 DYYQEGEVSEGCLL FNKPTHYNNNGNYTLIAKNALGTANQTINGHFLKEPFPESTDFDFESDASPTPPIT
 VTHKPEEDTFGVSI AVGLAAFACVLLVLFIMINKYGRRSKFGMKGPVAVISGEEDSASPLHHINHGIT
 PSSLDAGPDTVVI GMTRIPVIENPQYFRQGHNCHKPDTWVFSNIDNHGILNLDKDRDHLVPSTHYIYEEP
 EVQSGDVSYP RSHGFREIMLNPIISLSGHSKPLNHGIYVEDVNVYFSKGRHGF

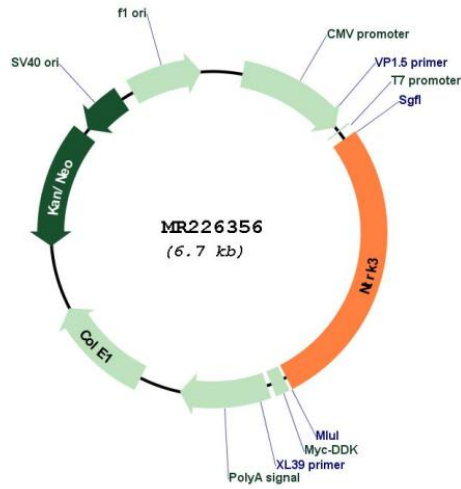
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_182809

ORF Size: 1836 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_182809.2, NP_877961.1</p>
RefSeq Size:	<p>3847 bp</p>
RefSeq ORF:	<p>1839 bp</p>
Locus ID:	<p>18213</p>
UniProt ID:	<p>Q6VNS1</p>
Cytogenetics:	<p>7 44.01 cM</p>
MW:	<p>68.8 kDa</p>
Gene Summary:	<p>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]</p>