

Product datasheet for **RC233143**

TrkC (NTRK3) (NM_001243101) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TrkC (NTRK3) (NM_001243101) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NTRK3
Synonyms:	gp145(trkC); GP145-TrkC; TRKC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC233143 representing NM_001243101
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGTCTCTCTTTGCCAGCCAAGTGTAGTTTCTGGCGGATTTTCTGCTGGGAAGCGTCTGGCTGG
 ACTATGTGGGCTCCGTGCTGGCTTGCCCTGCAAATTTGTGCTGCAGCAAGACTGAGATCAATTGCCGGCG
 GCCGGACGATGGGAACCTCTCCCCCTCCTGGAAGGGCAGGATTCAGGGAACAGCAATGGGAACGCCAGT
 ATCAACATCACGGACATCTCAAGGAATATCACTTCCATACACATAGAGAAGTGGCGCAGTCTTACACGC
 TCAACGCCGTGGACATGGAGCTTACACCGGACTTCAAAGCTGACCATCAAGAAGTCAAGACTTCCGGAG
 CATTACAGCCAGAGCCTTTGCCAAGAACCCCATTTGCGTTATATAAACCTGTCAAGTAACCGGCTCACC
 AACTCTCGTGGCAGCTTCCAGACGCTGAGTCTTCGGGAATTGCAGTTGGAGCAGAAGTCTTTCAACT
 GCAGCTGTGACATCCGCTGGATGCAGCTCTGGCAGGAGCAGGGGAGGCCAAGCTCAACAGCCAGAAGCT
 CTACTGCATCAACGCTGATGGCTCCAGCTTCTCTCTTCGCGATGAACATCAGTCAGTGTGACCTTCT
 GAGATCAGCGTGAGCCAGTCAACCTGACCGTACGAGAGGGTGACAATGCTGTTATCACTTGCAATGGCT
 CTGGATCACCCCTTCTGATGTGGACTGGATAGTCACTGGGCTGCAGTCCATCAACACTCACCAGACCAA
 TCTGAACTGGACCAATGTTTCATGCCATCAACTTGACGCTGGTGAATGTGACGAGTGGAGCAATGGCTTC
 ACCCTGACGTGCATTGCAGAGAAGCTGGTGGGCATGAGCAATGCCAGTGTGGCCCTCACTGTCTACTATC
 CCCCACGTGTGGTGAGCCTGGAGGAGCCTGAGCTGCGCCTGGAGCACTGCATCGAGTTTGTGGTGGCTGG
 CAACCCCAACCAACGCTGCACTGGCTGCACAATGGGCAGCCTCTGCGGGAGTCCAAGATCATCCATGTG
 GAATACTACCAAGAGGGAGAGATTTCCGAGGGCTGCCTGCTTCAACAAGCCCAACCAACAACAATG
 GCAACTATACCTCATTGCCAAAAACCCACTGGGCACAGCCAACAGACCATCAATGGCCACTTCTCTCAA
 GGAGCCCTTCCAGTTGACGAAGTGAAGTCCACACCTCCTATCACTGTGACCCACAACAGCAAGAAGAC
 ACTTTTGGGGTATCCATAGCAGTTGGACTTGTCTTTTGCCTGTGCTCTTGTGGTGTCTCTTCGTC
 TGATCAACAAATATGGTCGACGGTCCAATTTGGAATGAAGGGTCCCGTGGCTGTCATCAGTGGTGGAG
 GGACTCAGCCAGCCACTGCACCACATCAACCACGGCATCACCACGCCCTCGTCACTGGATGCCGGGCC
 GACTGTGGTCAATGGCATGACTCGCATCCCTGTCAATTGAGAACCCCAAGTACTTCCGTGAGGGACACA
 ACTGCCACAAGCCGACACGATGTGCAGCACATTAAGAGGAGAGACATCGTGTGAAGCGAGAAGTGGG
 TGAGGGAGCCTTTGGAAAGTCTTCTGGCCGAGTGTACAACCTCAGCCCGACCAAGGACAAGATGCTT
 GTGGCTGTGAAGCCCTGAAGGATCCCACCTGGCTGCCCGAAGGATTTCCAGAGGGAGGCCGAGCTGC
 TCACCAACTGCAGCATGAGCACATTGTCAAGTCTATGGAGTGTGCGGGATGGGGACCCCTCATCAT
 GGTCTTTGAATACATGAAGCATGGAGACCTGAATAAGTTCCTCAGGGCCCATGGGCCAGATGCAATGATC
 CTTGTGGATGGACAGCCACGCCAGGCCAAGGGTGAAGTGGGGCTCTCCCAAATGCTCCACATTGCCAGTC
 AGATCGCCTCGGGTATGGTGTACCTGGCCTCCCAGCACTTTGTGCACCGAGACCTGGCCACCAGGAAGT
 CCTGGTTGGAGCGAATCTGCTAGTGAAGATTGGGGACTTCGGCATGTCCAGAGATGTCTACAGCACGGAT
 TATTACAGGGTGGGAGGACACACCATGCTCCCCATTGCTGGATGCTCCTGAAAGCATCATGTACCGGA
 AGTTCACTACAGAGAGTGTATGGAGCTTCGGGGTGTCTCTGGGAGATCTTACCTATGAAAGCA
 GCCATGGTTCCAACCTCAAAACACGGAGGTCATTGAGTGCATTACCAAGGTCGTGTTTTGGAGCGGCC
 CGAGTCTGCCCCAAAGAGGTGTACGATGTGATGCTGGGGTGTGGCAGAGGGAACCAACAGCAGCGTTGA
 ACATCAAGGAGATCTACAAAATCCTCCATGCTTTGGGAAGGCCACCCCAATCTACCTGGACATTCTTGG
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC233143 representing NM_001243101
Red=Cloning site Green=Tags(s)

MDVSLCPAKCSFWRIFLLGSVWLDYVGSVLACPANCVCSKTEINCRPPDDGNLFPLLEGQDSGNSNGNAS
INITDISRNITSIHIENWRSLHTLNAVDMELYTGLQKLTIKNSGLRSIQPRAFAKNPHLRINLSSNRLT
TLQSWQLFQTLQSLRELQLEQNFNCSCDIRWMLWQEQGEAKLNSQNLKYNADGSQLPLFRMNISQCDLP
EISVSHVNLTVREGDNAVITCNGSGSPLPDVDWIVTGLQSIINTHTNLNWTNVHAINLTLVNVTSSENGF
TLTCIAENVVGMNASVALTVYPPRVVSLPEELRLEHCIEFVVRGNPPPTLHWHNGQPLRESKIIHV
EYYQEGEISEGCLLFNKPTHYNNNGNYTLIAKNPLGTANQTINGHFLKEFPFVDEVSPPTITVTHKPEED
TFGVSIAGLAFAFACVLLVVLVFMINKYGRRSKFGMKGPVAVISGEEDSASPLHHINHGITTSSLDAGP
DTVVIGMTRIPVIENPQYFRQGHNCHKPDTYVQHIKRRDIVLKRELGEAFGKVFVLAECYNLSPTKDKML
VAVKALKDPTLAARKDFQREALLTNLQHEHIVKFGVCGDGDPLIMVFEYMKHGDNLKFLRAHGPDAMI
LVDGQPRQAKGELGLSQMLHIASQIASGMVYLASQHFVHRDLATRNLVGANLLVKIGDFGMSRDVYSTD
YYRVGGHTMLPIRWMPPEESIMYRKFTTESDVWSFGVILWEIFTYKQPFQLSNTEVIEICITQGRVLERP
RVCPKEVYDVMLGCWQREPQQRNLNIKEIYKILHALGKATPIYLDILG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

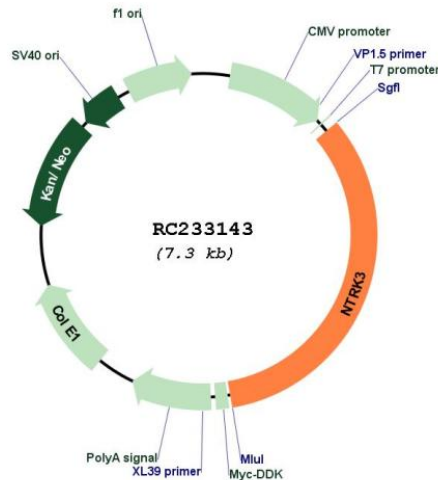
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001243101

ORF Size: 2451 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_001243101.1](#), [NP_001230030.1](#)

RefSeq Size: 2938 bp

RefSeq ORF: 2454 bp

Locus ID: 4916

Cytogenetics: 15q25.3

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Neurotrophin signaling pathway

MW: 92.3 kDa

Gene Summary: This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation and may play a role in the development of proprioceptive neurons that sense body position. Mutations in this gene have been associated with medulloblastomas, secretory breast carcinomas and other cancers. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]