

Product datasheet for **SC118578**

TrkC (NTRK3) (NM_002530) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TrkC (NTRK3) (NM_002530) Human Untagged Clone
Tag:	Tag Free
Symbol:	TrkC
Synonyms:	gp145(trkC); GP145-TrkC; TRKC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_002530 edited
ATGGATGTCTCTCTTTGCCAGCCAAGTGTAGTTTCTGGCGGATTTTCTTGTCTGGAAGC
GTCTGGCTGGACTATGTGGGCTCCGTGCTGGCTTGCCTGCAAATGTGTCTGCAGCAAG
ACTGAGATCAATTGCCGGCGGCCGGACGATGGGAACCTTCCCCCTCTGGAAGGGCAG
GATTCAGGGAACAGCAATGGGAACGCCAGTATCAACATCACGGACATCTCAAGGAATATC
ACTTCCATACACATAGAGAACTGGCGCAGTCTTACACGCTCAACGCCGTGGACATGGAG
CTCTACACCGGACTTCAAAGCTGACCATCAAGAACTCAGGACTTCGGAGCATTACGCC
AGAGCCTTTGCCAAGAACCCCATTTGCGTTATATAAACCTGTCAAGTAACCGGCTCACC
ACACTCTCGTGGCAGCTCTCCAGACGCTGAGTCTTCGGGAATTGCAGTTGGAGCAGAAC
TTTTTCAACTGCAGCTGTGACATCCGCTGGATGCAGCTCTGGCAGGAGCAGGGGAGGCC
AAGCTCAACAGCCAGAACCTCTACTGCATCAACGCTGATGGCTCCAGCTTCTCTCTTC
CGCATGAACATCAGTCAGTGTGACCTTCTGAGATCAGCGTGAGCCACGTCAACCTGACC
GTACGAGAGGGTGACAATGCTGTTATCACTTGAATGGCTCTGGATCACCCCTTCTGAT
GTGGACTGGATAGTCACTGGGCTGCAGTCCATCAACACTACCAGACCAATCTGAACTGG
ACCAATGTTTCATGCCATCAACTTACGCTGGTGAATGTGACGAGTGAGGACAATGGCTTC
ACCTGACGTGCATTGCAGAGAAGCTGGTGGGCATGAGCAATGCCAGTGTGCCCTCACT
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GTGACCCACAACAGAGAAGAAGACACTTTTGGGTATCCATAGCAGTTGGACTTGTGCT
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CTGCACCACATCAACCACGGCATCACCACGCCCTCGTCACTGGATGCCGGGCCGACACT
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AGCCCGACCAAGGACAAGATGCTTGTGGCTGTGAAGGCCCTGAAGGATCCCACCCTGGCT
GCCCGGAAGGATTTCCAGAGGGAGGCCGAGCTGCTCACCACCTGCAGCATGAGCACATT
GTCAAGTTCTATGGAGTGTGCGGCGATGGGGACCCCTCATCATGGTCTTTGAATACATG
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GATGGACAGCCACGCCAGGCCAAGGGTGGAGTGGGGCTCTCCCAATGCTCCACATTGCC
AGTCAGATCGCCTCGGTATGGTGTACCTGGCCTCCCAGCACTTTGTGCACCGAGACCTG
GCCACCAGGAAGTGCCTGGTGGAGCGAATCTGCTAGTGAAGATTGGGGACTTCGGCATG
TCCAGAGATGTCTACAGCACGGATTATTACAGGGTGGGAGGACACACCATGCTCCCCATT
CGCTGGATGCCTCCTGAAAGCATCATGTACCGAAGTTCCTACTACAGAGAGTGTATGATGG
AGCTTCGGGGTGTCTCTGGGAGATCTTACCTATGGAAGCAGCCATGGTTCCAACCTC
TCAAACACGGAGGTCATTGAGTGCATTACCAAGGTCGTGTTTTGGAGCGGCCCGAGTC
TGCCCCAAGAGGTGTACGATGTGCTGGGGTGTGGCAGAGGGAACACAGCAGCGG
TTGAACATCAAGGAGATCTACAAAATCCTCCATGCTTTGGGAAGGCCACCCCAATCTAC
CTGGACATTCTTGCTAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002530 unedited CTGTTACAGATGTTGAAAACCTCGNACTNCACTNTGAGGGNCGGACCGCCNAATCGGCACG AGGCTCCTCTTTTTAGAAAGCAGCGATCGGAGAGGATGTCTCTTTGCCAGCCAAGTG TAGTTTCTGGCGGATTTCTTGTCTGGAAGCGTCTGGCTGGACTATGTGGCTCCGTGCT GGCTTGCCTGCAAATTTGTCTGCAGCAAGACTGAGATCAATTGCCGGCGGCCGACGA TGGAACTCTTCCCCCTCTGGAAGGGCAGGATTCAGGGAACAGCAATGGGAACGCCAG TATCAACATCACGGACATCTCAAGGAATACACTTCCATACACATAGAGAAGTGGCGCAG TCTTACACGCTCAACGCCGTGGACATGGAGCTTACACCGGACTTCAAAGCTGACCAT CAAGAAGTCAAGACTTCCGAGCATTAGCCAGAGCCTTTGCCAAGAACCCCATTTGCG TTATATAAACCTGTCAAGTAACCGGCTCACCACACTCTCGTGGCAGCTTCCAGACGCT GAGTCTTCGGGAATTGCAGTTGGAGCAGAACTTTTCACTGCAGCTGTGACATCCGCTG GATGCAGCTCTGGCAGGAGCAGGGGAGGCCAAGCTCAACAGCCAGAACCTCTACTGCAT CAACGCTGATGGCTCCAGCTTCTCTTCCGCATGAACATCAGTCAGTGTGACCTTCC TGAGATCAGCGTGAGCCAGTTAACCTGACCGTACGAGAGGGTGACCATGCTGTTATCAC TTGCAATGGCTCTGGACCACCCCTTCTGATGTGGACTGAATAGTTACTGGGCTGCAGT CCATTCACACTACCAGGACAATCTGAAACTGGACCATGTTTCATGCCATCAACTGACGC TTGTGCATGTGACCAGTGAAGACTGCCTTACCTGT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002530 unedited CTTTCCAGGGCCAGGNATAGCACTGGGGAGGGTCACAGGNATGCCACCCGGGATCTGTT CAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCA GTTTGTATGTGTAGCAGGCACTTGAGTTTATATGAAGATGTTTCGCTTCAAGGATG GAAGGAGTTGTGAGGTGGAAGGGAGATGTGAGGCAGGGAGAGGAGGCAACAGAGTATG AATTCATGACCACCAGCCACCACTAGCCAAGAATGTCCAGGTAGATTGGGGTGGCCTTCC CCAAAGCATGGAGGATTTGTAGATCTCCTTGATGTTCAACCGCTGCTGTGGTCCCTCT GCCAGCACCCAGCATGACATCGTACACCTCTTGGGGCAGACTCGGGCCGCTCCAAAA CACGACCTTGGGTAATGCACTCAATGACCTCCGTGTTGAGAGTTGGAACCATGGCTGCT TTCCATAGGTGAAGATCTCCAGAGGATCACCCGAAGCTCCATACATCACTCTCTGTAG TGAACTTCCGGTACATGATGCTTTCAGGAGGCATCCAGCGAATGGGGAGCATGGTGTCT CTCCCACCCTGTAATAATCCGTGCTGTAGACATCTGGACATGCCGAAGTCCCCAATCT TCACTAGCAGATTGCTCCAACAGGCAGTTTCTGGTGGCCAGTCTCGGTGCACAAAGT GCTGGGAGGCCAGGTACCCATACCCGNAGCGATCTGACTGGNCATGTGGAGCATTGGG AGAGCCCCAGCTCACCTTGGCCTGCGGTGGCTGTCCATCCACAAGATCATTGCATCTGG CCATGGGCCCTGANNGACTTATCANGTCTCATGCTTCATGANCAAGACATGAGAGAGGGG GCCCATCGCCNCACTCATAGACTTGCATGGCTATGCTNCAGTTGGGAGCACTCGGCTCT TTGAATCTTCGCACCGGGTGAATCT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002530
Insert Size:	2800 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_002530.2](#), [NP_002521.2](#)

RefSeq Size: 2818 bp

RefSeq ORF: 2478 bp

Locus ID: 4916

UniProt ID: [Q16288](#)

Cytogenetics: 15q25.3

Domains: LRRNT, LRRCT, pkinase, TyrKc, LRR, S_TKc, ig, IG

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Neurotrophin signaling pathway

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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform b) compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.