

Product datasheet for **SC127911**

TrkB (NTRK2) (NM_006180) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TrkB (NTRK2) (NM_006180) Human Untagged Clone
Tag:	Tag Free
Symbol:	TrkB
Synonyms:	DEE58; EIEE58; GP145-TrkB; OBHD; trk-B; TRKB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_006180, the custom clone sequence may differ by one or more nucleotides

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ATGTCGTCCTGGATAAAGGTGGCATGGACCCGCCATGGCGCGGCTCTGGGGCTTCTGCTGGCTGGTTGTGG
GCTTCTGGAGGGCCGCTTTCGCTGTCCCACGCTCTGCAAATGCAGTGCCTCTCGGATCTGGTGCAGCGA
CCCTTCTCCTGGCATCGTGGCATTTCGAGATTGGAGCCTAACAGTGTAGATCCTGAGAACATCACCGAA
ATTTTCATCGCAAACCAGAAAAGTTAGAAATCATCAACGAAGATGATGTTGAAGCTTATGTGGGACTGA
GAAATCTGACAATTGTGGATTCTGGATTAATTTGTGGCTCATAAAGCATTCTGAAAAACAGCAACCT
GCAGCACATCAATTTACCCGAAACAACTGACGAGTTTGTCTAGGAAACATTTCCGTCACCTTGACTTG
TCTGAAGTATCCTGGTGGGCAATCCATTTACATGCTCCTGTGACATTATGTGGATCAAGACTCTCCAAG
AGGCTAAATCCAGTCCAGACACTCAGGATTTGACTGCCTGAATGAAAGCAGCAAGAATATTTCCCTGGC
AAACCTGCAGATACCAATTGTGGTTTGCATCTGCAAATCTGGCCGCACCTAACCTCACTGTGGAGGAA
GGAAAGTCTATCACATTATCCTGTAGTGTGGCAGGTGATCCGGTTCCTAATATGTATTGGGATGTTGGTA
ACCTGGTTTCAAACATATGAATGAAACAAGCCACACACAGGGCTCCTTAAGGATAACTAACATTTTCATC
CGATGACAGTGGGAAGCAGATCTTGTGTGGCGAAAATCTTGTAGGAGAAGATCAAGATTCTGTCAAC
CTCACTGTGCATTTTGCACCAACTATCACATTTCTCGAATCTCCAACCTCAGACCACCACTGGTGCATTC
CATTCACTGTGAAAGGCAACCCCAAACAGCGCTTCAAGTGGTTCTATAACGGGGCAATTTGAATGAGTC
CAAATACATCTGTACTAAAATACATGTTACCAATCACACGGAGTACCACGGCTGCCTCCAGCTGGATAAT
CCCCTCACATGAAACAATGGGGACTACACTCTAATAGCCAAGAATGAGTATGGGAAGGATGAGAAACAGA
TTTCTGCTCACTTCATGGGCTGGCTGGAATTGACGATGGTGCAAACCCAAATATCCTGATGTAATTTA
TGAAGATTATGGAAGTGCAGCGAATGACATCGGGGACACCACGAACAGAAGTAATGAAATCCCTTCCACA
GACGTCAGTATAAAACCGTCCGGGAACATCTCTCGGTCTATGCTGTGGTGGTATTGCGTCTGTGGTGG
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CTCATGTTTGGATTTGGGAAAGTAAAATCAAGACAAGGTGTTGGCCAGCCTCCGTTATCAGCAATGAT
GATGACTCTGCCAGCCACTCCATCACATCTCCAATGGGAGTAACACTCCATCTTCTCGGAAGGTGGCC
CAGATGCTGTCATTATTGGAATGACCAAGATCCCTGTCATTGAAAATCCCAGTACTTTGGCATCACCAA
CAGTCAGCTCAAGCCAGACACATTTGTTACGCACATCAAGCGACATAACATTGTTCTGAAAAGGGAGCTA
GGCGAAGGAGCCTTTGAAAAGTGTTCCTAGCTGAATGCTATAACCTCTGCTCCTGAGCAGGACAAGATCT
TGGTGGCAGTGAAGACCCTGAAGGATGCCAGTGAATGCACGCAAGGACTTCCACCGTGAAGCCGAGCT
CCTGACCAACCTCCAGCATGAGCACATCGTCAAGTTCTATGGCGTCTGCGTGGAGGGCGACCCCTCATC
ATGGTCTTTGAGTACATGAAGCATGGGGACCTCAACAAGTTCTCAGGGCACACGGCCCTGATGCCGTGC
TGATGGCTGAGGGCAACCCGCCACGGAAGTACGCGAGTGCAGATGCTGCATATAGCCCAGCAGATCGC
CGCGGGCATGGTCTACCTGGCGTCCCAGCACTTCTGTGACCGGATTTGGCCACCAGGAAGTGCCTGGTC
GGGGAGAACTTGCTGGTGAATTCGGGGACTTTGGGATGTCCCGGGACGTGTACAGCACTGACTACTACA
GGTCCGGTGGCCACAAATGCTGCCATTCGCTGGATGCCTCCAGAGAGCATCATGTACAGGAAATTCAC
GACGAAAGCGACGTCTGGAGCCTGGGGTCTGTTGTGGGAGATTTTACCTATGGCAAACAGCCCTGG
TACCAGCTGTCAAACAATGAGGTGATAGAGTGTATCACTCAGGGCCGAGTCTGCAGCGACCCCGCACGT
GCCCCAGGAGGTGATGAGCTGATGCTGGGGTCTGGCAGCGAGAGCCACATGAGGAAGAACATCAA
GGCATCCATACCCTCCTCAGAAGTTGGCAAGGATCTCCGGTCTACCTGGACATTCTAGGCTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006180 unedited GGATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGCGCATTTTTTCAGAGCTGAAC CAAGCACGGTTTTCCATTTCAAAAAGGGAGACAGCCTCTACCGGATTGTAGAAGAGACTG TGGTGTGAATTAGGGACCGGGAGGCGTCGAACGGAGGAACGGTTCATCTTATAGCCTCGA GGTGCATACCGGACCCCCATTTCGCATCTAACAAGGAATCTGCGCCCCAGAGAGTCCCGGG AGCGCCCGCGGTGCGTCCCGGCGCGCCGGCCATGCAGCGACGGCCCGCGGAGCTCC GAGCAGCGGTAGCGCCCCCTGTAAAGCGGTTTCGCTATGCGGGGCCACTGTGAACCCTG CCGCCTGCCGGAACACTTTCGCTCCGGACCAGCTCAGCCTCTGATAAGCTGGACTCGGC ACGCCCCGAACAAGCACCGAGGAGTTAAGAGAGCCGAAGCGCAGGGAAGGCCTCCCGGC ACGGGTGGGGAAAGCGGCCGTGCAGCGGGGACAGGCACTCGGGCTGGCACTGGCTG CTAGGGNATGTCGTCTGGATAAGGTGGCATGGACCCGCATGGCGCGGCTCTGGGGCTT CTGTGGCTGGTTGTGGCTCTTAGANAGCCGCTTTCGCCTGTCCCACGTCCTGCANATG CAGTGCCTCTGGATNCTGGTGCAGCGACCCTTCTCCTGGCATCGTGGCATTTCGAGA TTGGAGCCTAACAGTNGGTAGATCCTGAGAACATCANCCGAAATTTTCATCGCAACCAGA AAAGTTAGAAATCTCACGAANNATGATGTTGAGCTTATTGTGGACTGAGAATCTNGAC ATNGGGGATCCTGGATAAAAATTTGGGGCTCATAAAGCATTNCTGAAAACAGCACCTGCA GACATCATTTTACCCGACACTGNGNNGAGT
Restriction Sites:	NotI-NotI
ACCN:	NM_006180
Insert Size:	4800 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:	<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:	NM_006180.3 , NP_006171.2
RefSeq Size:	5608 bp
RefSeq ORF:	2517 bp
Locus ID:	4915
UniProt ID:	Q16620
Cytogenetics:	9q21.33
Domains:	LRRNT, LRRCT, pkinase, TyrKc, LRR, S_TKc, ig, IGc2, IG
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: MAPK signaling pathway, 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. Mutations in this gene have been associated with obesity and mood disorders. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]
Transcript Variant: This variant (a, also known as TrkB) represents the longest transcript and encodes the longest isoform (a). The 5' UTR exon structure is inferred due to a lack of 5'-complete transcript support for this variant. 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.