

Product datasheet for **SC311139**

TrkB (NTRK2) (NM_001018064) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TrkB (NTRK2) (NM_001018064) 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: >OriGene ORF sequence for NM_001018064 edited
 ATGTCGTCCTGGATAAGGTGGCATGGACCCGCCATGGCGCGGCTCTGGGGCTTCTGCTGG
 CTGGTTGTGGGCTTCTGGAGGGCCGCTTTCGCCTGTCCCACGCTCTGCAAATGCAGTGCC
 TCTCGGATCTGGTGCAGCGACCCCTTCTCCTGGCATCGTGGCATTTCGAGATTGGAGCCT
 AACAGTGTAGATCCTGAGAACATCACCGAAATTTTCATCGCAAACCAGAAAAGGTTAGAA
 ATCATCAACGAAGATGATGTTGAAGCTTATGTGGGACTGAGAAATCTGACAATTGGGAT
 TCTGGATTAAAAATTTGTGGCTCATAAAGCATTCTGAAAAACAGCAACCTGCAGCACATC
 AATTTTACCCGAAACAACTGACGAGTTTGTCTAGGAAACATTTCCGTACCTTGACTTG
 TCTGAACTGATCCTGGTGGGCAATCCATTACATGCTCCTGTGACATTATGTGGATCAAG
 ACTCTCCAAGAGGCTAAATCCAGTCCAGACACTCAGGATTTGACTGCCTGAATGAAAGC
 AGCAAGAATATTTCCCTGGCAAACCTGCAGATACCCAATTGTGGTTTGCCATCTGCAAAT
 CTGGCCGCACCTAACCTCACTGTGGAGGAAGGAAAGTCTATCACATTACCTGTAGTGTG
 GCAGGTGATCCGGTTCCTAATATGTATTGGGATGTTGGTAACCTGGTTTCCAAACATATG
 AATGAAACAAGCCACACACAGGGCTCCTTAAGGATAACTAACATTTTCATCCGATGACAGT
 GGAAGCAGATCTTTGTGTGGCGGAAAATCCTGTAGGAGAAGATCAAGATTCTGTCAAC
 CCACTGTGCATTTTGCACCAACTATCACATTTCTCGAATCTCCAACCTCAGACCACCAC
 TGGTGCATTCCATTCACTGTGAAAGGCAACCCCAACCAGCGCTTCAGTGGTTCTATAAC
 GGGGCAATATTGAATGAGTCCAAATACATCTGTAATAAATACATGTTACCAATCACACG
 GAGTACCACGGCTGCCTCCAGCTGGATAATCCCACTCACATGAACAATGGGGACTACACT
 CTAATAGCCAAGAATGAGTATGGGAAGGATGAGAAACAGATTTCTGCTCACTTTCATGGGC
 TGGCCTGGAATTGACGATGGTGCAAACCCAAATATCCTGATGTAATTTATGAAGATTAT
 GAACTGCAGCGAATGACATCGGGGACACCACGAACAGAAGTAAATGAAATCCCTTCCACA
 GACGTCAGTATAAAACCGGTCGGGAACATCTCTCGGTCTATGCTGTGGTGGTGTATGGC
 TCTGTGGTGGGATTTTGCCTTTTGGTAATGCTGTTTCTGCTTAAGTTGGCAAGACACTCC
 AAGTTTGGCATGAAAGGCCAGCCTCCGTTATCAGCAATGATGATGACTCTGCCAGCCCA
 CTCATCACATCTCCAATGGGAGTAACACTCCATCTTCTCGGAAGGTGGCCAGATGCT
 GTCATTATTGGAATGACCAAGATCCCTGTCATTGAAAAATCCCACTACTTTGGCATCACC
 AACAGTCACTCAAGCCAGACACATTTGTTTCAGCACATCAAGCGACATAACATTGTTCTG
 AAAAGGGAGCTAGGCGAAGGAGCCTTTGGAAAAGTGTTCCTAGCTGAATGCTATAACCTC
 TGTCTGAGCAGGACAAGATCTTGGTGGCAGTGAAGACCCTGAAGGATGCCAGTGACAAT
 GCACGCAAGGACTTCCACCGTGAGGCCGAGCTCCTGACCAACCTCCAGCATGAGCACATC
 GTCAAGTTCTATGGCGTCTGCGTGGAGGGCGACCCCTCATCATGGTCTTTGAGTACATG
 AAGCATGGGGACCTCAACAAGTTCTCAGGGCACACGGCCCTGATGCCGTGCTGATGGCT
 GAGGGCAACCCGCCACGGAAGTACGCGAGTCCGAGATGCTGCATATAGCCCAGCAGATC
 GCCGCGGGCATGGTCTACCTGGCGTCCCAGCACTTCGTGCACCCGGATTGGCCACCAGG
 AACTGCCTGGTCGGGGAGAATTGCTGGTGAATAATCGGGGACTTTGGGATGTCCCGGGAC
 GTGTACAGCACTGACTACTACAGGGTCGGTGGCCACACAATGTGCCATTTCGCTGGATG
 CCTCCAGAGAGCATCATGTACAGGAAATTCACGACGAAAAGCGACGTCTGGAGCCTGGGG
 GTCGTGTTGTGGGAGATTTTACCTATGGCAAACAGCCCTGGTACCAGCTGTCAAACAAT
 GAGGTGATAGAGTGTATCACTCAGGGCCGAGTCTGCAGCGACCCCGACGTGCCCCAG
 GAGGTGTATGAGCTGATGCTGGGGTCTGGCAGCGAGAGCCACATGAGGAAGAATC
 AAGGGCATCCATACCCTCCTCAGAAGTTGGCCAAGGCATCTCCGGTCTACCTGGACATT
 CTAGGCTAG

Restriction Sites: Please inquire
ACCN: NM_001018064
Insert Size: 5100 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001018064.1</u> , <u>NP_001018074.1</u>
RefSeq Size:	5560 bp
RefSeq ORF:	2469 bp
Locus ID:	4915
UniProt ID:	<u>Q16620</u>
Cytogenetics:	9q21.33
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	MAPK signaling pathway, Neurotrophin signaling pathway
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (c) lacks an alternate in-frame exon in the central coding region, compared to variant a, resulting in an isoform (c) that is shorter than isoform a. The 5' UTR is incomplete due to a lack of 5'-complete transcript support for this variant, and because there is ambiguity in the 5' UTR splicing pattern. Variants c, k, and l all encode the same isoform (c). 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.</p>