

## Product datasheet for **SC301152**

### TrkB (NTRK2) (NM\_001007097) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TrkB (NTRK2) (NM_001007097) Human Untagged Clone
Tag:	Tag Free
Symbol:	TrkB
Synonyms:	DEE58; EIEE58; GP145-TrkB; OBHD; trk-B; TRKB
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM\_001007097 edited  
ATGTCGTCCTGGATAAGGTGGCATGGACCCGCCATGGCGCGGCTCTGGGGCTTCTGCTGG  
CTGGTTGTGGGCTTCTGGAGGGCCGCTTTCGCCTGTCCCACGCTCTGCAAATGCAGTGCC  
TCTCGGATCTGGTGCAGCGACCCCTTCTCCTGGCATCGTGGCATTTCGAGATTGGAGCCT  
AACAGTGTAGATCCTGAGAACATCACGAAATTTTCATCGCAAACCAGAAAAGGTTAGAA  
ATCATCAACGAAGATGATGTTGAAGCTTATGTGGGACTGAGAAATCTGACAATTGTGGAT  
TCTGGATAAAAATTTGTGGCTCATAAAGCATTCTGAAAAACAGCAACCTGCAGCACATC  
AATTTTACCCGAAACAACTGACGAGTTTGTCTAGGAAACATTTCCGTACCTTGACTTG  
TCTGAACCTGATCCTGGTGGGCAATCCATTTACATGCTCCTGTGACATTATGTGGATCAAG  
ACTCTCCAAGAGGCTAAATCCAGTCCAGACACTCAGGATTTGACTGCCTGAATGAAAGC  
AGCAAGAATATTTCCCTGGCAAACCTGCAGATACCCAATTGTGGTTTGCCATCTGCAAAT  
CTGGCCGCACCTAACCTCACTGTGGAGGAAGGAAAGTCTATCACATTATCCTGTAGTGTG  
GCAGGTGATCCGGTTCCTAATATGTATTGGGATGTTGGTAACTGGTTTCCAAACATATG  
AATGAAACAAGCCACACACAGGGCTCCTTAAGGATAACTAACATTTTCATCCGATGACAGT  
GGGAAGCAGATCTTTGTGTGGCGGAAAATCTTGTAGGAGAAGATCAAGATTCTGTCAAC  
CTCACTGTGCATTTTGCACCAACTATCACATTTCTCGAATCTCCAACCTCAGACCACCAC  
TGGTGCATTCCATTCCTGTGAAAGGCAACCCCAACCAGCGCTTCAGTGGTTCTATAAC  
GGGGCAATATTGAATGAGTCCAAATACATCTGTAATAAATACATGTTACCAATCACACG  
GAGTACCACGGCTGCCTCCAGCTGGATAATCCCACTCACATGAACAATGGGGACTACACT  
CTAATAGCCAAGAATGAGTATGGGAAGGATGAGAAACAGATTTCTGCTCACTTCATGGGC  
TGGCCTGGAATTGACGATGGTGCAAACCCAAATATCCTGATGTAATTTATGAAGATTAT  
GGAAGTGCAGCGAATGACATCGGGGACACCACGAACAGAAGTAATGAAATCCCTTCCACA  
GACGCTCACTGATAAAACCGGTCCGGGAACATCTCTCGGTCTATGCTGTGGTGGTATTGCG  
TCTGTGGTGGGATTTTGCCTTTTGGTAATGCTGTTTCTGCTTAAGTTGGCAAGACATCC  
AAGTTTGGCATGAAAGTTTTGTTTTGTTTCATAAGATCCCACTGGATGGGTAGCTGAAA  
TAAAGGAAAAGACAGAGAAAGGGCTGTGGTGTGTTGGTTGATGCTGCCATGTAAGCT  
GGACTCCTGGGACTGCTGTTGGCTTATCCCGGAAGTGTGCTTATCTGGGGTTTTCTGG  
TAGATGTGGGCGGTGTTGGAGGCTGACTATATGAAGCCTGCATATACTGTGAGCTGTG  
ATTGGGGAACCAATGCAGAGGTAACCTCAGGCAGCTAAGCAGCACCTCAAGAAAACA  
TGTTAAATTAATGCTTCTTCTTACAGTAGTTCAAATACAAAATGAAATGAAATCCCA  
TTGGATTGACTTCTTCTGAAAAGTGTGCTTTTTGACCCTACTGGACATTTATTGACT  
TAATTGCTTCTGTTTATTTAAATGACCTGCAAAGTTAAAAAAAATTAAGTTGAGAAC  
AGGTATAAGTGCACACTGAATAGTCTAATCTACATGTAACACATATTTTAGTATGATTTT  
CTATACTAATCAGCACTGAATTCAGAGGGTTGACTTTTTTCATCTATAACACAGTGAC  
TAAAAGAGTTAAGGGTATATATACCATCAC



<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001007097.1</a> , <a href="#">NP_001007098.1</a>
<b>RefSeq Size:</b>	7111 bp
<b>RefSeq ORF:</b>	1434 bp
<b>Locus ID:</b>	4915
<b>UniProt ID:</b>	<a href="#">Q16620</a>
<b>Cytogenetics:</b>	9q21.33
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	MAPK signaling pathway, Neurotrophin signaling pathway
<b>Gene Summary:</b>	<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 (b, also known as TrkB-T1) lacks several 3' exons but contains an alternate 3' terminal exon (exon 16 in PMID:11798182), and it thus differs in the 3' coding region and 3' UTR, compared to variant a. The encoded isoform (b) has a distinct C-terminus and 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 b and o-w all encode the same isoform (b). 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>