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Product datasheet for SC302153

TrkB (NTRK2) (NM_001018065) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TrkB (NTRK2) (NM_001018065) Human Untagged Clone
Tag:	Tag Free
Symbol:	TrkB
Synonyms:	DEE58; EIEE58; GP145-TrkB; OBHD; trk-B; TRKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC302153 representing NM_001018065.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGTCCTGGATAAGGTGGCATGGACCCGCCATGGCGCGGCTCTGGGGCTTCTGCTGGCTGGTTGTG
GGCTTCTGGAGGGCCGCTTTCGCCTGTCCCACGTCCTGCAAATGCAGTGCCTCTCGGATCTGGTGCAGC
GACCCTTCTCCTGGCATCGTGGCATTTCCGAGATTGGAGCCTAACAGTGTAGATCCTGAGAACATCACC
GAAATTTTCATCGCAAACCAGAAAAGGTTAGAAATCATCAACGAAGATGATGTTGAAGCTTATGTGGGA
CTGAGAAATCTGACAATTGTGGATTCTGGATTAAAATTTGTGGCTCATAAAGCATTTCTGAAAAACAGC
AACCTGCAGCACATCAATTTTACCCGAAACAAACTGACGAGTTTGTCTAGGAAACATTTCCGTCACCTT
GACTTGTCTGAACTGATCCTGGTGGGCAATCCATTTACATGCTCCTGTGACATTATGTGGATCAAGACT
CTCCAAGAGGCTAAATCCAGTCCAGACACTCAGGATTTGTACTGCCTGAATGAAAGCAGCAAGAATATT
CCCCTGGCAAACCTGCAGATACCCAATTGTGGTTTGCCATCTGCAAATCTGGCCGCACCTAACCTCACT
GTGGAGGAAGGAAAGTCTATCACATTATCCTGTAGTGTGGCAGGTGATCCGGTTCCTAATATGTATTGG
GATGTTGGTAACCTGGTTTCCAAACATATGAATGAAACAAGCCACACACAGGGCTCCTTAAGGATAACT
AACATTTCATCCGATGACAGTGGGAAGCAGATCTCTTGTGTGGCGGAAAATCTTGTAGGAGAAGATCAA
GATTCTGTCAACCTCACTGTGCATTTTGCACCAACTATCACATTTCTCGAATCTCCAACCTCAGACCAC
CACTGGTGCATTCCATTCACTGTGAAAGGCAACCCCAAACCAGCGCTTCAGTGGTTCTATAACGGGGCA
ATATTGAATGAGTCCAAATACATCTGTACTAAAATACATGTTACCAATCACACGGAGTACCACGGCTGC
CTCCAGCTGGATAATCCCACTCACATGAACAATGGGGACTACACTCTAATAGCCAAGAATGAGTATGGG
AAGGATGAGAAACAGATTTCTGCTCACTTCATGGGCTGGCCTGGAATTGACGATGGTGCAAACCCAAAT
TATCCTGATGTAATTTATGAAGATTATGGAACTGCAGCGAATGACATCGGGGACACCACGAACAGAAGT
AATGAAATCCCTTCCACAGACGTCACTGATAAAACCGGTCGGGAACATCTCTCGGTCTATGCTGTGGTG
GTGATTGCGTCTGTGGTGGGATTTTGCCTTTTGGTAATGCTGTTTCTGCTTAAGTTGGCAAGACACTCC
AAGTTTGGCATGAAAGATTTCTCATGGTTTGGATTTGGGAAAGTAAAATCAAGACAAGGTGTTGGCCCA
GCCTCCGTTATCAGCAATGATGATGACTCTGCCAGCCCACTCCATCACATCTCCAATGGGAGTAACACT
CCATCTTCTTCGGAAGGTGGCCCAGATGCTGTCATTATTGGAATGACCAAGATCCCTGTCATTGAAAAT
CCCCAGTACTTTGGCATCACCAACAGTCAGCTCAAGCCAGACACATGGCCCAGAGGTTCCCCCAAGACC
GCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_001018065

Insert Size: 1662 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:	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_001018065.2
RefSeq Size:	8340 bp
RefSeq ORF:	1662 bp
Locus ID:	4915
UniProt ID:	Q16620
Cytogenetics:	9q21.33
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	MAPK signaling pathway, Neurotrophin signaling pathway
MW:	61 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. 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 (d) lacks several 3' exons but contains an alternate 3' terminal exon, and it thus differs in the 3' coding region and 3' UTR, compared to variant a. The encoded isoform (d, also known as TrkB-T-Shc) 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 d and m both encode the same isoform (d). 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.