

Product datasheet for **RG238388**

TrkB (NTRK2) (NM_001291937) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TrkB (NTRK2) (NM_001291937) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TrkB
Synonyms:	DEE58; EIEE58; GP145-TrkB; OBHD; trk-B; TRKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238388 representing NM_001291937. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGTCCTGGATAAGGTGGCATGGACCCGCCATGGCGCGGCTCTGGGGCTTCTGCTGGCTGGTTGTG
GGCTTCTGGAGGGCCGCTTTCGCTGTCCACGTCCTGCAAAATGCAGTGCCTCTCGGATCTGGTGCAGC
GACCCCTTCTCCTGGCATCGTGGCATTTCGAGATTGGAGCCTAACAGTGTAGATCCTGAGAACATCACC
GAAATTTTCATCGCAAACAGAAAAGGTTAGAAATCATCAACGAAGATGATGTTGAAGCTTATGTGGGA
CTGAGAAATCTGACAATTGTGGATTCTGGATTAATTTGTGGCTCATAAAGCATTCTGAAAAACAGC
AACCTGCAGCACATCAATTTTACCGAAACAACTGACGAGTTTGTCTAGGAAACATTTCCGTACCTT
GACTTGTCTGAACTGATCCTGGTGGGCAATCCATTTACATGCTCCTGTGACATTATGTGGATCAAGACT
CTCCAAGAGGCTAAATCCAGTCCAGACTCAGGATTTGTACTGCCTGAATGAAAGCAGCAAGAATATT
CCCCTGGCAAACCTGCAGATACCAATTGTGGTTTGCATCTGCAAACTGGCCGCACCTAACCTCACT
GTGGAGGAAGGAAAGTCTATCACATTACCTGTAGTGTGGCAGGTGATCCGGTTCCTAATATGATTGG
GATGTTGGTAACCTGGTTTCCAACATATGAATGAAACAAGCCACACACAGGGCTCCTAAGGATAACT
AACATTTTCATCCGATGACAGTGGGAAGCAGATCTTGTGTGGCGGAAAACTTTGAGGAGAAGATCAA
GATTCTGTCAACCTCACTGTGCATTACCACCCTGGTGCATTCCATTCATGTGAAAGGCAACCCCAAA
CCAGCGCTTCAGTGGTTCTATAACGGGGCAATATTGAATGAGTCCAAATACATGTACTAAAATACAT
GTTACCAATCACACGGAGTACCACGGCTGCCTCCAGCTGGATAATCCCACTCACATGAACAAATGGGGAC
TACACTCTAATAGCCAAGAATGAGTATGGGAAGGATGAGAAACAGATTTCTGCTCACTTCATGGGCTGG
CCTGGAATTGACGATGGTCAAACCCAAATATCCTGATGTAATTTATGAAGATTATGAACTGCAGCG
AATGACATCGGGGACACCACGAACAGAAGTAAATGAAATCCCTTCCACAGACGTCCTGATAAAACCGGT
CGGGAACATCTCTCGTCTATGCTGTGGTGGTATTGCGTCTGTGGTGGGATTTTGCCTTTTGGTAAATG
CTGTTTCTGCTTAAGTTGGCAAGACTCCAAGTTGGCATGAAAGGTTTGTGTTTGTTCATAAGATC
CCACTGGATGGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238388
 Blue=ORF Red=Cloning site Green=Tag(s)

MSSWIRWHGPAMARLWGFVWRAAFACPTSCCKCSASRIWCSDPSPGIVAFPRLEPNSVDPENIT
 EIFIANQKRLEIINEDDVEAYVGLRNLTIIVDGLKFAHKAFLKNSNLQHINFRNKL TSLSRKHFRHL
 DLSELILVGNPFTCSCDIMWIKTLQEAKSSPDTQDLYCLNESSKNIPLANLQIPNCGLPSANLAAPNLT
 VEEGKSITLSCSVAGDPVPMYWDVGNLVSKHMNETSHTQGLRITNIISSDSDSGKQISCV AENLVGEDQ
 DSVNLTVHYHHWCIPFTVKGNPKPALQWFYNGAILNESKYICTKIHTVNHTEYHGCLQLDNPTHMNGD
 YTLIAKNEYGKDEKQISAHFMGWPIDGIDGANNPYDVIYEDYGTAAANDIGDTTNRSNEIPSTDVTDKTG
 REHLSVYAVVVIASVVGFCLLVMLFLLKLARHSKFGMKGFVLFHKIPLDG
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001291937

ORF Size: 1392 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

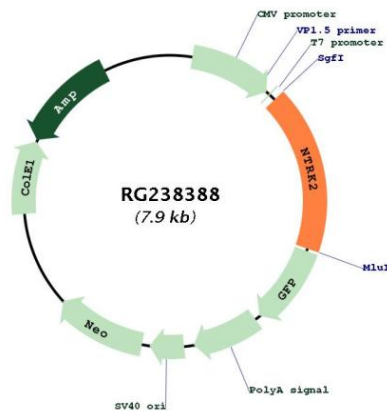
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

RefSeq: [NM_001291937.2](#)

RefSeq Size: 7568 bp
RefSeq ORF: 1395 bp
Locus ID: 4915
Cytogenetics: 9q21.33
Protein Families: Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways: MAPK signaling pathway, Neurotrophin signaling pathway
MW: 52.2 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]

Product images:



Circular map for RG238388