

Product datasheet for **SC319663**

TRAK1 (NM_014965) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAK1 (NM_014965) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRAK1
Synonyms:	EIEE68; MILT1; OIP106
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014965.3
 CCAGGAGCTTTGTGTACACCCCTCCACTTCAGCTGAGCCAGGGCATGTCTGCGGCCCAGG
 CCAGGGGCGCAGTGTGTGCCCTGGGGGCCAGGCCGTGCATGGCTCCTCTGGGTAGGGGGTC
 GGGGGCACCCCAAGGATGGTCCCTTAGGGTGATGTTTTGGCTTTGGGGTGACTTCAGCA
 ATGTCCCTGCGAGACAAGGGCGGGGAAGAAGAATGTTTTGAATACGACTGCCAGGATGAA
 GAGAGAAAGCCAACCCACAGGCAGCATGACACCCAGGACCTCTTGAAGAGGTTTTATGT
 GCTGAAAAGAGTTGGCCAGATGACTAAGACATATAATGACATAGATGCTGTCACTCGGCTT
 CTTGAGGAGAAAAGAGCGGATTTAGAATTGGCCGCTCGCATCGGCCAGTGTGTTGAAG
 AAGAACAAGACCTAACCAGAGAGAACGAGCTGCTGGAGGAGCAGGTGGAACACATCAGG
 GAGGAGGTGTCTCAGCTCCGGCATGAGCTGTCCATGAAGGATGAGCTGCTTCAGTTCTAC
 ACCAGCGCTGCGGAGGAGAGTGAGCCCGAGTCCGTTTGCTCAACCCCGTTGAAGAGGAAT
 GAGTCGTCTCCTCAGTCCAGAATTACTTTCAATTTGGATTCTCTTCAAAAGAAGCTGAAA
 GACCTTGAAGAGGAGAATGTTGACTTCGATCCGAGGCCAGCCAGCTGAAGACAGAGACC
 ATCACCTATGAGGAGAAGGAGCAGCAGCTGGTCAATGACTGCGTGAAGGAGCTGAGGGAT
 GCCAATGTCCAGATTGCTAGTATCTCAGAGGAAGTGGCCAAGAAGACGGAAGATGCTGCC
 CGCCAGCAAGAGGAGATCACACACTGCTATCGCAATAGTTGATTTGCAGAAAAAGGCA
 AAAGCTTGCGCAGTGGAAAATGAAGAACTTGCCAGCATCTGGGGCTGTAAAGGATGCC
 CAGCGGCAGCTCACAGCCGAGCTGCGTGAGCTGGAGGACAAGTACGCAGAGTGCATGGAG
 ATGCTGCATGAGGCGCAGGAGGAGCTGAAGAACCTCCGGAACAAAACCATGCCAATACC
 ACGTCTCGGGCGTACCACTCGCTGGGCCTGTTCCCATGGATTCTTGGCAGCAGAGATT
 GAGGGAACGATGCGCAAGGAGCTGCAGTTGGAAGAGGCCGAGTCTCCAGACATCACTCAC
 CAGAAGCGTGTCTTTGAGACAGTAAGAAACATCAACCAGTTGTCAAGCAGAGATCTCTG
 ACCCTTCTCCCATGAACATCCCCGGCTCCAACCAGTCTCGGCCATGAACTCCCTCCTG
 TCCAGCTGCGTACGACACCCCGGTCAGCTTCTACGGCAGCGACATAGGCAACGTCGTC
 CTCGACAACAAGACCAACAGCATCATTCTGAAAACAGAGGCAGCCGACCTGGGAAACGAT
 GAGCGGAGTAAGAAGCCGGGGACGCCGGGCACCCAGGCTCCCACGACCTGGAGACGGCG
 CTGAGGGCGGTGTCCCTGCGCCGGGAGAACTACCTCTCGGAGAGGAGTTCTTTGAGGAG
 GAGCAAGAGAGGAAGCTCCAGGAGCTGGCGGAGAAGGGCGAGCTGCGCAGCGGCTCCCTC
 ACACCCACTGAGAGCATCATGTCCCTGGGCACGCACTCCCGCTTCTCCGAGTTCACCGGC
 TTCTCTGGCATGTCTTACGACGCGCTCCTACCTGCCTGAGAAGCTCCAGATCGTGAAG
 CCGCTGGAAGGTTCTGCCACACTTCAACACTGGCAGCAGTTGGCCCAACCTCACCTTGGG
 GGCATCCTGGACCCCGGCTGGTGTGGTCAACAAGGGCTTCCGGACGCTGGATGTTGAC
 CTGGACGAAGTGTACTGCCTAACGACTTTGAAGAAGATGACACAGGTGACCACATTTCT
 CTCCCACGCCTAGCTACCTCCACTCCAGTTCAGCACCCAGAGACCTCAGGTGAGAGGTCC
 CAAGCAGTGTGACTGTCTCAGGCAGCAGAAGTTACCCGAGCCGGCTCAGGCTTCCCA
 GAGGAGATGCAGGAGCCGCCAGCGGCCACGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 GAGGAGGGGTCTGGTGAGGGCACACGATAAGTCTGTAAACTTGGCACCTTCCCGGAG
 GCAGAGTTTTGGCCATTCTCACCTCTGTTCCAGGCACCATCCGTAGTGGTTCTCTGTCT
 GTAGCTCCGCTCGTCTGTGTGGGTGATGATTAAGCATTCTCATTGCACAGTTCTGTTT
 TAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_014965

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:	NM_014965.3 , NP_055780.2
RefSeq Size:	4630 bp
RefSeq ORF:	2061 bp
Locus ID:	22906
UniProt ID:	Q9UPV9
Cytogenetics:	3p22.1
Domains:	HAP1_N
Protein Families:	Transcription Factors
Gene Summary:	<p>Involved in the regulation of endosome-to-lysosome trafficking, including endocytic trafficking of EGF-EGFR complexes and GABA-A receptors (PubMed:18675823). Involved in mitochondrial motility. When O-glycosylated, abolishes mitochondrial motility. Crucial for recruiting OGT to the mitochondrial surface of neuronal processes (PubMed:24995978). TRAK1 and RHOT form an essential protein complex that links KIF5 to mitochondria for light chain-independent, anterograde transport of mitochondria (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' and 3' UTRs and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) is shorter and has distinct N- and C-termini, compared to isoform 1. 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.</p>