

Product datasheet for **SC311412**

TRAK1 (NM_001042646) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | TRAK1 (NM_001042646) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | TRAK1 |
| Synonyms: | EIEE68; MILT1; OIP106 |
| Vector: | <u>pCMV6 series</u> |



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001042646, the custom clone sequence may differ by one or more nucleotides

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ATGGCATTGGTTTTTCAATTCGGGCAGCCCGTCAGGGCTCAGCCTCTGCCAGGACTCTGC
CACGGCAAGCTCATTTCGGACAAACGCCTGTGATGTGTGCAACAGCACCGATCTTCCGGAA
GTGAGATCATTAGCCTGCTGGAGGAGCAGCTGCCCATATAAGTTAAGAGCCGACACC
ATCTACGGTTATGACCACGACGACTGGCTCCATACACCTCTCATTCTCCAGATGCCAAC
ATTGACCTCACAAACCGAGCAAATGAAGAGACGTTAAAACTCTCTTTTATGTGCTGAA
AGAGTTGGCCAGATGACTAAGACATATAATGACATAGATGCTGTCACTCGGCTTCTTGAG
GAGAAAGAGCGGGATTTAGAATTGGCCGCTCGCATCGGCCAGTCGTTGTTGAAGAAGAAC
AAGACCCTAACCGAGAGGAACGAGCTGTGAGGAGCAGGTGGAACACATCAGGGAGGAG
GTGCTCAGCTCCGGCATGAGCTGTCCATGAAGGATGAGCTGCTCAGTTCTACACCAGC
GCTGCGGAGGAGAGTGAGCCGAGTCCGTTTGTCAACCCCGTTGAAGAGGAATGAGTCG
TCCTCCTCAGTCCAGAATTACTTTTCAATTTGGATTCTCTTCAAAGAAGCTGAAAGACCTT
GAAGAGGAGAATGTTGACTTTCGATCCGAGGCCAGCCAGCTGAAGACAGAGACCATCACC
TATGAGGAGAAGGAGCAGCAGCTGGTCAATGACTGCGTGAAGGAGCTGAGGGATGCCAAT
GTCAGATTGCTAGTATCTCAGAGGAACTGGCCAAGAAGACGGAAGATGTGCCGCCAG
CAAGAGGAGATCACACCTGCTATCGCAAATAGTTGATTTGCAGAAAAAGGCAAAAGCT
TGCGCAGTGGAAAATGAAGAACTTGCCAGCATCTGGGGGCTGCTAAGGATGCCAGCGG
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CGTGTCTTTGAGACAGTAAGAAAACATCAACCAGTTGTCAAGCAGAGATCTCTGACCCCT
TCTCCCATGAACATCCCCGGCTCCAACCAAGTCCCTCGGCCATGAACCTCCCTGTCAGC
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AACAAAGACCAACAGCATCATTCTGGAAACAGAGGCAGCCGACCTGGGAAACGATGAGCGG
AGTAAGAAGCCGGGACGCCGGGACCCCAAGGCTCCCACGACCTGGAGACGGCGCTGAGG
CGGCTGTCCCTGCGCCGGGAGAACTACCTCTCGGAGAGGAGTCTTTGAGGAGGAGCAA
GAGAGGAAGCTCCAGGAGCTGGCGGAGAAGGGCGAGCTGCGCAGCGGCTCCCTCACACC
ACTGAGAGCATCATGTCCCTGGGCACGCACTCCCGCTTCTCCGAGTTCACCGCTTCTCT
GGCATGTCTTACAGCAGCCGCTCCTACCTGCTGAGAAGCTCCAGATCGTGAAGCCGCTG
GAAGGTTCCGCCACACTTCAACCACTGGCAGCAGTTGGCCAACCTCACCTTGGGGGCATC
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GAAGTGTACTGCCTTAACGACTTTGAAGAAGATGACACAGGTGACCACATTTCTCTCCCA
CGCCTAGTACTCCTCACTCCAGTTCAGCACCCAGAGACCTCAGCGCACCATCCTGGGAAG
TGCATGTCTCAGACCAACTCCACCTTACCTTACCCACCTGTGCGATCCTGCATCCTTCA
GATGAGCTCACTCGGGTACACCAAGCCTTAACTCAGCCCAACTCCAGCTTGTGGCAGC
ACCAGCCACTTGAAATCCACGCCGGTGGCCACACCATGCACTCCACGGAGACTGAGCCTG
GCTGAGTCTTCACTAACACCCGTGAGTCCACGACCACCATGAGCACATCCCTGGGGCTC
GTGTGGCTGTTGAAGGAGCGGGCATTCTGCTGCCGTGTACGACCCCAAGAGCTGGGAC
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GAAGTGAGAGAAAAGACGTCCGCAGCAGGAGCCAGACCGACGTGTCGCTCTCAAC
CTCAACCTCGTGGACAAAGTCAGGAGTTTGGGGTGGCCAAAGTGGTGAACCTCAGGGCGA
GCCCATGTCCCCACCTTACTGAGGAGCAGGGACCCCTCTCTGTGGGCCCGGGGCCA
GCACCAGCCCTTGTCCAGAGGCTGGTACCTGAGGGCTGCCCTCAGATGCCCACT
GTCACCAGTGCCATCGGTGGGCTGCAGCTCAATAGTGGCATCCGCGGGAATCGCAGCTTC
CCCACCATGGTGGGATCTAGCATGCAGATGAAAGCTCCTGTGACTCTCACCTCGGGCATC
TTGATGGGTGCTAAGCTCTCAAACAAACTAGCTTACGGTGA
    
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| Restriction Sites: | Please inquire |
| ACCN: | NM_001042646 |
| 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_001042646.1</u> , <u>NP_001036111.1</u> |
| RefSeq Size: | 5123 bp |
| RefSeq ORF: | 2862 bp |
| Locus ID: | 22906 |
| UniProt ID: | <u>Q9UPV9</u> |
| Cytogenetics: | 3p22.1 |
| 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 (1) encodes the longest 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> |