

## Product datasheet for **SC123620**

### **TRAK1 (BC015922) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TRAK1 (BC015922) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRAK1
Synonyms:	OGT(O-Glc-NAc transferase)-interacting protein 106 KDa; OGT(O Glc NAc transferase) interacting protein 106 KDa; OIP106; trafficking protein, kinesin binding 1
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:

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>OriGene sequence for BC015922 edited
CCAGGAGCTTTGTGTACACCCCTCCACTTCAGCTGAGCCAGGCCATGTCTGCGGCCCAGG
CCAGGGCGCAGTGTGTGCCCTGGGGGCCAGGCCCTGCATGGCTCCTCTGGGTAGGGGGTC
GGGGGCACCCCAAGGATGGTCCCTTAGGGTGATGTTTTGGCTTTGGGGTGACTTCAGCA
ATGTCCCTGCGAGACAAGGGCGGGGAAGAAGAATGTTTTGAATACGACTGCCAGGATGAA
GAGAGGAAGCCAACCCACAGGCAGCATGACACCCAGGACCTCTTGAAGAGGTTTTATGT
GCTGAAAGAGTTGGCCAGATGACTAAGACATATAATGACATAGATGCTGTCACTCGGCTT
CTTGAGGAGAAAAGAGCGGGATTTAGAATTGGCCGCTCGCATCGGCCAGTGGTTGTTGAAG
AAGAACAAGACCCCTAACCGAGAGAACGAGCTGCTGGAGGAGCAGGTGGAACACATCAGG
GAGGAGGTGTCTCAGCTCCGGCATGAGCTGTCCATGAAGGATGAGCTGCTTCAGTTCTAC
ACCAGCGCTGCGGAGGAGAGTGAGCCCGAGTCCGTTTGCTCAACCCCGTTGAAGAGGAAT
GAGTCGTCTCCTCAGTCCAGAATTACTTTTCAATTTGGATTCTCTTCAAAAGAAGCTGAAA
GACCTTGAAGAGGAGAATGTTGTACTTCGATCCGAGGCCAGCCAGCTGAAGACAGAGACC
ATCACCTATGAGGAGAAGGAGCAGCAGCTGGTCAATGACTGCGTGAAGGAGCTGAGGGAT
GCCAATGTCCAGATTGCTAGTATCTCAGAGGAAGTGGCCAAGAAGACGGAAGATGCTGCC
CGCCAGCAAGAGGAGATCACACACTGCTATCGCAATAGTTGATTTGCAGAAAAAGGCA
AAAGCTTGCGCAGTGGAATAAAGAACTTGCCAGCATCTGGGGCTGCTAAGGATGCC
CAGCGGCAGCTCACAGCCGAGCTGCGTGAGCTGGAGGACAAGTACGCAGAGTGATGGAG
ATGCTGCATGAGGCGCAGGAGGAGCTGAAGAACCTCCGGAACAAAACCATGCCAATACC
ACGTCTCGGGCGTACCACTCGCTGGGCCTGTTCCCATGGATTCTTGGCAGCAGAGATT
GAGGGAACGATGCGCAAGGAGCTGCAGTTGGAAGAGGCCGAGTCTCCAGACATCACTCAC
CAGAAGCGTGTCTTTGAGACAGTAAGAAACATCAACCAGTTGTCAAGCAGAGATCTCTG
ACCCCTTCTCCCATGAACATCCCCGGCTCCAACCAGTCTCGGCCATGAACTCCCTCGT
TCCAGCTGCGTACGACACCCCGGTCAGCTTCTACGGCAGCGACATAGGCAACGTCGTC
CTCGACAACAAGACCAACAGCATCATTCTGGAACAGAGGCAGCCGACCTGGGAAACGAT
GAGCGGAGTAAGAAGCCGGGGACGCCGGGCACCCAGGCTCCCACGACCTGGAGACGGCG
CTGAGGGCGGTGTCCCTGCGCCGGGAGAACTACCTCTCGGAGAGGAGTTCTTTGAGGAG
GAGCAAGAGAGGAAGCTCCAGGAGCTGGCGGAGAAGGGCGAGCTGCGCAGCGGCTCCCTC
ACACCCACTGAGAGCATCATGTCCCTGGGCACGCACTCCCGCTTCTCCGAGTTCACCGGC
TTCTCTGGCATGTCTTACGACGCGCTCCTACCTGCCTGAGAAGCTCCAGATCGTGAAG
CCGCTGGAAGGTTCTGCCACACTTCAACCACTGGCAGCAGTTGGCCCAACCTCACCTTGGG
GGCATCTGGACCCCGGCTGGTGTGGTCAACAAGGGCTTCCGGACGCTGGATGTTGAC
CTGGACGAAGTGTACTGCCTAACGACTTTGAAGAAGATGACACAGGTGACCACATTTCT
CTCCCACGCCTAGCTACCTCCACTCCAGTTCAGCACCCAGAGACCTCAGGTGAGAGGTCC
CAAGCAGTGTGACTGTCTCAGGCAGCAGAAGTTACCCGAGCCGGCTCAGGCTTCCCCA
GAGGAGATGCAGGAGCCGCCAGCGGCCACGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
GAGGAGGGGTCTGGTGAGGGCACACGATAAGTCTGTAAACTTGGCACCTTTCCCGGAG
GCAGAGTTTTGGCCATTCTCACCTCTGTTCCAGGCACCATCCGTAGTGGTTCTCTGTCT
GTAGCTCCGCTCGTCTGTGTGGGTGATGATTAAGCATTCTCATTGCACAGTTCTGTTT
TTAAAAAAAAAAAAAAAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC015922 unedited NAACGTCATAATTGTAATACACTCATATAGGCGGCACGCGAATTCGCACGAGGCCAGGAG CTTTGTGTACCACCCCTCCACTTCATCTGAGCCAGGGCATGTCTGCGGCCATGCCAGGG CGCAGTGTGTGCCCTGGGGGCCAGGCCTGCATGGCTCCTCTGGGTAGGGGGTCGGGGGC ACCCCAAGGATGGTCCCTTAGGGTGATGTTTTGGCTTTGGGGTACTTCAGCAATGTCC CTGCGAGACAAGGGCGGGGAAGAAGAATGTTTTGAATACGACTGCCAGGATGAAGAGAGG AAGCCAACCCACAGGCAGCATGACACCCAGGACCTCTTGAAGAGGTTTTATGTGCTGAA AGAGTTGGCCAGATGACTAAGACATATAATGACATAGATGCTGCTACTCGCTTCTTGAG GAGAAAGAGCGGGATTTAGAATTGGCCGCTCGCATCGGCCAGTCGTTGTTGAAGAAGAAC AAGACCCTAACCGAGAGGAACGAGCTGCTGGAGGAGCAGGTGGAACACATCAGGGAGGAG GTGTCTCAGTCCGGCATGAGCTGTCCATGAAGGATGAGCTGCTCAGTTCTACACCAGC GCTGCGGAGGAGAGTGAGCCCGAGTCCGTTTCTCAACCCGTTGAAGAGGAATGAGTCG TCCTCCTCAGTCCAGAATTACTTTCATTTGGATTCTCTTCAAAGAAGCTGANAGACCTT GAAGAGGAGAATGTTGTACTTCGATCCGAGGCCAGCCAGCTGAAGACAGAGACCATCACC TATGANGAGAAGGAGCAGCAGCTGGTCAATGACTGCGTGAAGGAGCTNGAGGATGCCAAT GTCCAGATTGCTAGTATCTCANAGGAAGTGGCCAGAAGACCGGAGATGCTGGCCGCCAG CAGNAGAA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC015922
<b>Insert Size:</b>	2306 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<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="#">BC015922.1</a> , <a href="#">AAH15922.1</a>
<b>RefSeq Size:</b>	2306 bp
<b>Locus ID:</b>	22906
<b>Cytogenetics:</b>	3p22.1
<b>Protein Families:</b>	Transcription Factors

**Gene Summary:**

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]