

## Product datasheet for **MC206070**

### Trak1 (BC058971) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trak1 (BC058971) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trak1
Synonyms:	2310001H13Rik; AI413908; AI467545; hyrt; mKIAA1042
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC058971

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 AA AAAAAAA

**Restriction Sites:** Ascl-NotI  
**ACCN:** BC058971  
**Insert Size:** 2820 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="#">BC058971</a> , <a href="#">AAH58971</a>
<b>RefSeq Size:</b>	4908 bp
<b>RefSeq ORF:</b>	2820 bp
<b>Locus ID:</b>	67095
<b>Cytogenetics:</b>	9 72.41 cM
<b>Gene Summary:</b>	Involved in the regulation of endosome-to-lysosome trafficking, including endocytic trafficking of EGF-EGFR complexes and GABA-A receptors (By similarity). Involved in mitochondrial motility (PubMed:24995978). When O-glycosylated, abolishes mitochondrial motility. Crucial for recruiting OGT to the mitochondrial surface of neuronal processes (By similarity). 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]