

Product datasheet for **MC201256**

Ttc8 (NM_198311) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttc8 (NM_198311) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ttc8
Synonyms:	0610012F22Rik; AV001447; BBS8
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC017523 sequence for NM_198311
 CCGGGCCGGGCTCTGGGTACAGGGCCTCTGGGTTCTTGAGGGTTGTCCCGGACCACCATGGGCTCAGAG
 ATGGAGCCACTGCTCCGGGCCTGGAGCTATTTTAGACGCAGGAAGTTCAGCTCTGCGCCGATCTATGCA
 CGCAGATGCTGGAGAAATCCCCTTATGATCAGGAACCAGCTCCTGATTTGCCAGTGTCTCAGGCGGCTTG
 GATTTTAAAGCACGGGCGCTGACAGAGATGGTGTACATAGATGAAATTGATGTGGACCAGGAAGGAATT
 GCTGAAATGATCCTGGATGAAAATGCTATTGCTCAGGTCCCACGCCCTGGCACATCTTTGAAGTCCCTG
 GCACTAACCAACAGGAGGACCGACTCAAGCTGTCAGGCCAATCACTCAAGCTGGAAGACCCATAACAGG
 TTTCTTAGGCCAGCACACAGAGTGGAAGACCAGGTACAATGGAACAGGCCATCAGAACCACCCAGAAT
 GCCTACACAGCACGACCTATCACTAGCTCATCTGGAAGATTTCGTGAGACTGGGGACTGCTTCCATGCTTA
 CAAGTCCCAGTGGACATTTATAAATTTATCTAGACTGAATTTAACAAAAATTTCCAGAAAGCCTAAGTT
 GGCAAAGGCTCTATTTGAATATATTCTCCACCATGAAAACGATGTTAAGATGGCTTTGGATTTGGCGTCC
 CTTTCCACGGAGTATTCTCAGTACAAGGACTGGTGGTGAAGGTACAGATTGGAAAATGTTACTACAGGT
 TAGGAATGTACCGTGAAGCAGAGAAACAGTTTAAATCAGCCTTGAAGCAGCAGGAAATGGTAGACACATT
 TCTCTATCTGGCAAAAGTTTATATCATATTGGATCAACCTGTGACTGCTTTAAATCTATTTAAACAAGGC
 TTAGATAAGTTTCCAGGAGAGGTGACCCTGCTTTGTGGAATTGCCAGGATCTATGAGGAAATGAATAACA
 GTTCATCTGCAGCAGAGTACTACAAAGAAGTTCTAAAACAAGACAATACTCACGTGGAAGCCATCGCCTG
 CATTGGAAGCAACCACTTTTATTCTGACCAGCCAGAGGTTGCCCTTCGGTTTTACAGGCGCCTCTTGCGAG
 ATGGGAGTTTATAACTGCCAGCTTTTCAACAACCTGGGCCTGTGCTGCTTCTATGCCCAGCAGTACGATA
 TGACCCTGACCTCGTTTGAACGTGCCCTTTCCCTGGCTGAAAAAAGAAGAGGCAGCTGATGTCTGGTA
 CAACCTGGGGCACATAGCTGTGGGAATCGGAGATACAACTTGGCCCAACATGCTTCAGGCTGGCCCTG
 GTCCACAACAACCACCATGCTGAAGCCTACAACAACCTGGCAGTGTGGAGATGCGGAAGGGTCACGTTG
 AACAGGCACGCGCGCTCTTACAACCCGCATCGTCTTTGGCACCCACATGTATGAGCCACACTTTAATTT
 CGCAACAGTCTCTGATAAGATTGGAGACTTTCAGAGAAGCTACGTTGCTGCTCAGAAGTCTGAAGTGGCG
 TTTCTGAAACACGTGGACACACAGCACTTAATTAAGCAGCTGAAGCAGCACTTTGCTATGCTCTGATCAG
 TGCTTGGGCCACATAAGCCTTACGAGGGCCAGCGCACAGGAAAGAAAACGCACTGAGTGCATTTGTAC
 CAATACTGTGATGCAGACCTCATAAGGCATCCTACAAGACTGCAAACCCGAACCTGTTGTCTGAACCTTG
 TTGTTTTATAAGGTAACACTAGAAAAACAGGACTTAAGCATTTCCTAGTTTTATCAATTAATAAATTTAT
 TGTTAGATACAGACATTTTCAAAGACATATGTCATATATGTTGGGTGCACCTTCTGCCATGCTCTCCTC
 CCATTAGTCCCCTTTGTCCCCTAGACACTTTCATGTCACCTGTATGGGCATGAGTTTAGGTATCTGACTA
 AGATCTAGAAGCCGAGATTAGAGAAGAAACACAATGTATATAGTTGTTAAACATTTTCATGAACCTCAA
 TTTTTTTATAAATGTGTATTTTAAACTTGTTAAGCAAAAAAAAAAACTCTTTAATCATTAGCTGTCATTA
 TAAACTTAGGAGTTCAGAAATCTGCTTTAAATTTTTATTTTTATGGCTAATAATGTGTGCTTTTATCAC
 AAATGCTTTAATTAGAACATGAAAATTTGTATTTTAAACTATTTTTATCATAAAGTTTGTATTATATATT
 ACACCTTAAAAATAATCAGTATGTAACAACAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_198311

Insert Size: 1548 bp

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).

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:

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: [BC017523](#), [AAH17523](#)

RefSeq Size: 2287 bp

RefSeq ORF: 1548 bp

Locus ID: 76260

UniProt ID: [Q8VD72](#)

Cytogenetics: 12 E

Gene Summary: The BBSome complex is thought to function as a coat complex required for sorting of specific membrane proteins to the primary cilia. The BBSome complex is required for ciliogenesis but is dispensable for centriolar satellite function. This ciliogenic function is mediated in part by the Rab8 GDP/GTP exchange factor, which localizes to the basal body and contacts the BBSome. Rab8(GTP) enters the primary cilium and promotes extension of the ciliary membrane. Firstly the BBSome associates with the ciliary membrane and binds to RAB3IP/Rabin8, the guanosyl exchange factor (GEF) for Rab8 and then the Rab8-GTP localizes to the cilium and promotes docking and fusion of carrier vesicles to the base of the ciliary membrane. The BBSome complex, together with the LTZL1, controls SMO ciliary trafficking and contributes to the sonic hedgehog (SHH) pathway regulation. Required for proper BBSome complex assembly and its ciliary localization (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) contains an additional in-frame coding exon compared to variant 1, resulting in a longer isoform (2) with an internal protein segment not found in isoform 1.