

Product datasheet for **MR208262**

Ttc8 (NM_198311) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttc8 (NM_198311) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ttc8
Synonyms:	0610012F22Rik; AV001447; BBS8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR208262 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTCAGAGATGGAGCCACTGCTCCGGCCTGGAGCTATTTAGACGCAGGAAGTTCAGCTCTGCG
 CCGATCTATGCACGCAGATGCTGGAGAAATCCCCTTATGATCAGGAACCAGCTCCTGATTTGCCAGTGTC
 TCAGGCGGCTTGATTTTGAAGCACGGGCGCTGACAGAGATGGTGTACATAGATGAAATTGATGTGGAC
 CAGGAAGGAATTGCTGAAATGATCCTGGATGAAATGCTATTGCTCAGGTCCACGCCCTGGCACATCTT
 TGAAGCTCCCTGGCACTAACAAACAGGAGGACCGACTCAAGCTGTGAGGCCAATCACTCAAGCTGGAAG
 ACCCATAACAGGTTTCTTAGGCCCAGCACACAGAGTGAAGACCAGGTACAATGGAACAGGCCATCAGA
 ACACCCAGAACTGCCTACACAGCAGCAGCTATCACTAGCTCATCTGGAAGATTCGTCAGACTGGGGACTG
 CTTCCATGCTTACAAGTCCCGATGGACCATTATATAAATTTATCTAGACTGAATTTAACAAAATATCCCA
 GAAGCCTAAGTTGGCAAAGGCTCTATTTGAATATATTCTCCACCATGAAAACGATGTTAAGATGGCTTTG
 GATTTGGCGTCCCTTTCCACGGAGTATTCTCAGTACAAGGACTGGTGGTGAAGGTACAGATTGGAAAAT
 GTTACTACAGGTTAGGAATGTACCGTGAAGCAGAGAAACAGTTTAAATCAGCCTTGAAGCAGCAGAAAAT
 GGTAGACACATTTCTCTATCTGGCAAAAGTTTATATCATATTGGATCAACCTGTGACTGCTTTAAATCTA
 TTTAAACAAGGCTTAGATAAGTTTCAGGAGAGGTGACCCTGCTTTGTGGAATTGCCAGGATCTATGAGG
 AAATGAATAACAGTTCATCTGCAGCAGAGTACTACAAAGAAGTTCTAAACAAGACAATACTCACGTGGA
 AGCCATCGCCTGCATTGGAAGCAACCACTTTTATTCTGACCAGCCAGAGGTTGCCCTTCGGTTTTACAGG
 CGCCTCTTGACAGATGGGAGTTTATAACTGCCAGCTTTTCAACAACCTGGGCCTGTGCTGCTTCTATGCCC
 AGCAGTACGATATGACCCTGACCTCGTTTGAACGTGCCCTTTCCCTGGCTGAAAATGAAGAAGAGGCAGC
 TGATGCTGTGGTACAACCTGGGGCACATAGCTGTGGGAATCGGAGATACAAACTTGGCCCAACATGCTTC
 AGGCTGGCCCTGGTCCACAACAACCACTGCTGAAGCCTACAACAACCTGGCAGTGTGGAGATGCGGA
 AGGGTCACGTTGAACAGGCACGCGCGCTTTACAAACCGCATCGTCTTTGGCACCCACATGTATGAGCC
 ACACCTTAATTTGCAACAGTCTCTGATAAGATTGGAGATCTTCAGAGAAGCTACGTTGCTGCTCAGAAG
 TCTGAAGTGGCGTTTCTGAACAGTGGACACACAGCACTTAATTAAGCAGCTGAAGCAGCACTTTGCTA
 TGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

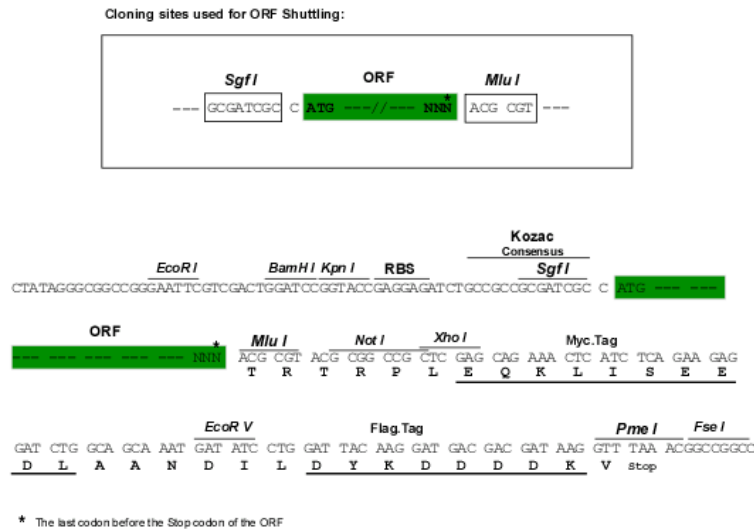
>MR208262 protein sequence
 Red=Cloning site Green=Tags(s)

MGSEMEPLLRAWSYFRRRKFLCADLCTQMLEKSPYDQEPAPDLPVSQAAWILKARALTEMVYIDEIDVD
 QEGIAEMILDENAIQVPRPGTSLKLPGTNQTGGPTQAVRPITQAGRPITGFLRPSTQSGRPGTMEQAIR
 TPRTAYTARPITSSSGRFVRLGTASMLTSPDGPFINLSRLNLTKYSQKPKLAKALFEYILHHENDVKMAL
 DLASLSTEYSQYKDWKWKVQIGKCYRLGMYREAEKQFKSALKQQEMVDFTLYLAKVYIILDQPVLTALNL
 FKQGLDKFPGEVTLTCGIARIYEEMNSSSAAEYKEVLKQDNTHVEAIACIGSNHFYSQPEVALRFYR
 RLLQMGVYNCQLFNNLGLCCFYAQYDMTLTSFERALSLAENEEEAADVYNLGHIAVGIGDTNLAHQCF
 RLALVHNHHAAYNNLAVLEMRKGHVEQARALLQTASSLAPHMYEPHFNFATVSDKIGDLQRSYVAAQK
 SEVAFPEHVDTHLIKQLKQHFAML

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_198311

ORF Size: 1545 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_198311.2](#)

RefSeq Size: 2287 bp

RefSeq ORF: 1548 bp

Locus ID: 76260

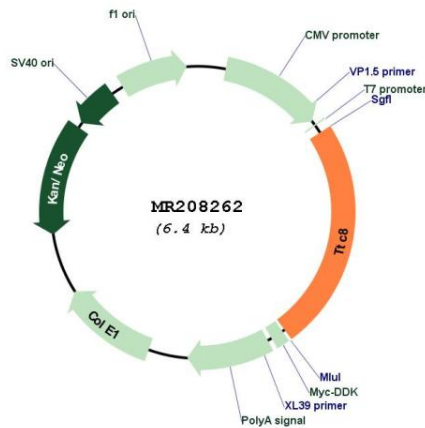
UniProt ID: Q8VD72

Cytogenetics: 12 E

MW: 58.4 kDa

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 RAB31P/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]

Product images:



Circular map for MR208262