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Product datasheet for MG208262

Ttc8 (NM_198311) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttc8 (NM_198311) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ttc8
Synonyms:	0610012F22Rik; AV001447; BBS8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>MG208262 representing NM_198311
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCTCAGAGATGGAGCCACTGCTCCGGGCCTGGAGCTATTTTAGACGCAGGAAGTTCCAGCTCTGCG
CCGATCTATGCACGCAGATGCTGGAGAAATCCCCTTATGATCAGGAACCAGCTCCTGATTTGCCAGTGTC
TCAGGCGGCTTGGATTTTGAAAGCACGGGCGCTGACAGAGATGGTGTACATAGATGAAATTGATGTGGAC
CAGGAAGGAATTGCTGAAATGATCCTGGATGAAAATGCTATTGCTCAGGTCCCACGCCCTGGCACATCTT
TGAAGCTCCCTGGCACTAACCAAACAGGAGGACCGACTCAAGCTGTCAGGCCAATCACTCAAGCTGGAAG
ACCCATAACAGGTTTCCTTAGGCCCAGCACACAGAGTGGAAGACCAGGTACAATGGAACAGGCCATCAGA
ACACCCAGAACTGCCTACACAGCACGACCTATCACTAGCTCATCTGGAAGATTCGTCAGACTGGGGACTG
CTTCCATGCTTACAAGTCCCGATGGACCATTTATAAATTTATCTAGACTGAATTTAACAAAATATTCCCA
GAAGCCTAAGTTGGCAAAGGCTCTATTTGAATATATTCTCCACCATGAAAACGATGTTAAGATGGCTTTG
GATTTGGCGTCCCTTTCCACGGAGTATTCTCAGTACAAGGACTGGTGGTGGAAGGTACAGATTGGAAAAT
GTTACTACAGGTTAGGAATGTACCGTGAAGCAGAGAAACAGTTTAAATCAGCCTTGAAGCAGCAGGAAAT
GGTAGACACATTTCTCTATCTGGCAAAAGTTTATATCATATTGGATCAACCTGTGACTGCTTTAAATCTA
TTTAAACAAGGCTTAGATAAGTTTCCAGGAGAGGTGACCCTGCTTTGTGGAATTGCCAGGATCTATGAGG
AAATGAATAACAGTTCATCTGCAGCAGAGTACTACAAAGAAGTTCTAAAACAAGACAATACTCACGTGGA
AGCCATCGCCTGCATTGGAAGCAACCACTTTTATTCTGACCAGCCAGAGGTTGCCCTTCGGTTTTACAGG
CGCCTCTTGCAGATGGGAGTTTATAACTGCCAGCTTTTCAACAACCTGGGCCTGTGCTGCTTCTATGCCC
AGCAGTACGATATGACCCTGACCTCGTTTGAACGTGCCCTTTCCCTGGCTGAAAATGAAGAAGAGGCAGC
TGATGTCTGGTACAACCTGGGGCACATAGCTGTGGGAATCGGAGATACAAACTTGGCCCACCAATGCTTC
AGGCTGGCCCTGGTCCACAACAACCACCATGCTGAAGCCTACAACAACCTGGCAGTGCTGGAGATGCGGA
AGGGTCACGTTGAACAGGCACGCGCGCTCTTACAAACCGCATCGTCTTTGGCACCCCACATGTATGAGCC
ACACTTTAATTTCGCAACAGTCTCTGATAAGATTGGAGATCTTCAGAGAAGCTACGTTGCTGCTCAGAAG
TCTGAAGTGGCGTTTCCTGAACACGTGGACACACAGCACTTAATTAAGCAGCTGAAGCAGCACTTTGCTA
TGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

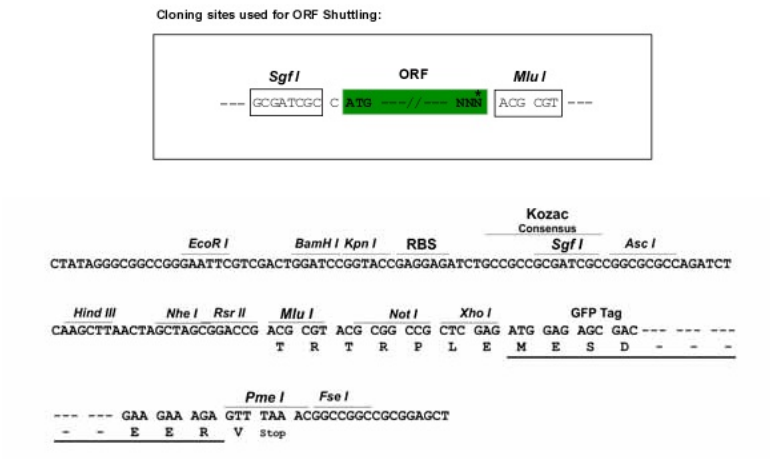
>MG208262 representing NM_198311
Red=Cloning site Green=Tags(s)

MGSEMEPLLRAWSYFRRRKFQLCADLCTQMLEKSPYDQEPAPDLPVSQAAWILKARALTEMVYIDEIDVD
QEGIAEMILDENAIAQVPRPGTSLKLPGTNQTGGPTQAVRPITQAGRPITGFLRPSTQSGRPGTMEQAIR
TPRTAYTARPITSSSGRFVRLGTASMLTSPDGPFINLSRLNLTKYSQKPKLAKALFEYILHHENDVKMAL
DLASLSTEYSQYKDWWWKVQIGKCYYRLGMYREAEKQFKSALKQQEMVDTFLYLAKVYIILDQPVTALNL
FKQGLDKFPGEVTLLCGIARIYEEMNNSSSAAEYYKEVLKQDNTHVEAIACIGSNHFYSDQPEVALRFYR
RLLQMGVYNCQLFNNLGLCCFYAQQYDMTLTSFERALSLAENEEEAADVWYNLGHIAVGIGDTNLAHQCF
RLALVHNNHHAEAYNNLAVLEMRKGHVEQARALLQTASSLAPHMYEPHFNFATVSDKIGDLQRSYVAAQK
SEVAFPEHVDTQHLIKQLKQHFAML

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



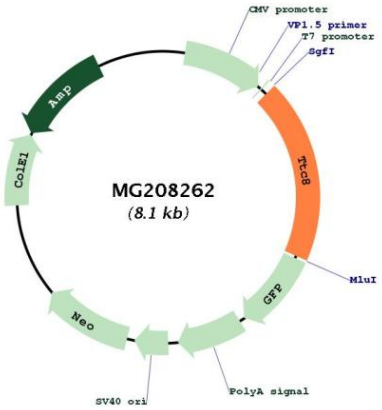
ACCN:	NM_198311
ORF Size:	1545 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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

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]

Product images:



Circular map for MG208262