

Product datasheet for **MG206877**

Sept4 (BC055101) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sept4 (BC055101) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sept4
Synonyms:	ARTS; Bh5; OTTMUSG00000001265; Pnutl2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206877 representing BC055101 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCATTCACTGGGATGGCAAGGGAAGCTGTCCCCGAGGACGGGACTGAAGCTGGGATCAAGCACT
TCCTGGAGGACAGCAGTGATGATGCTGAGCTGAGCAAGTTCGTGAAGGATTTCCAGGAAGCGAACCCCTA
CCACTCAGCGGAGTCCAAGACAAGGGTGGCCAGGCCCCAGATCTTGGAGCCAAGGCCCCAGAGCCAGAC
CTCTGTGATGATGACGTGGAGTTAGAGGCTCCTTGTGGCCCCAGCCCTCTGACAGTCAGCAGTACTTCA
GTCCCCAGCCCCTCTCAGCCCTCCTCCAGGCCCGCAGTCCATGGGGCAAGCTTGATCCTTATGATTC
CTCTGAGGATGACAAGGAGTATGTGGGCTTTGCAACCCTCCCAATCAAGTCCACAGGAAGTCTGTGAAG
AAAGGCTTTGACTTTACACTCATGGTGGCAGGAGAATCTGGTCTGGGTAATCCACTCTTGTCAACAGCC
TCTTCTCACTGACTTGTACCGGATCGGAAACTGCTGGGCGCCGAAGAGCGGATCATGCAAACCGTGGA
GATTACTAAGCACGCAGTGGATATAGAAGAGAAGGGAGTGAGGCTGCGGCTCACCATTTGTGGACTCCA
GGATTTGGGGATGCAGTCAACAACAGAGTGTGGAAGCCTGTGGCCGAATACATCGACCAGCAGTTTG
AGCAGTACTTCCGAGACGAGAGTGGCTGAACCGCAAGAATCCAGGACAACCGGGTGCAGTCTGCCT
GTACTTCAACATTGTGCCTATCTTGGCTAAGGCGGACACACTGACGCCCTCCTGAAGTGACCGAAAGAAAT
GCAAAATCCGGGAGGAGATCGAGCACTTTGGAATCAAGATCTATCAGTTCAGACTGTGATTCGGATGA
GGACGAGGACTTCAAATACAGGACCAAGCCCTAAAGGAAAGCATCCCATTTGCGGTGATTGGCAGCAAC
ACTGTGTTAGAAGCCAGGGGGCGGAGAGTTCGAGGCCGCCTTACCCTTGGGGCATCGTGAAGTGGAAA
ACCCAGGTCACTGCGACTTTGTCAAGTTGAGGACGATGCTGGTGCATCCACATGCAGGACCTAAAGGA
TGTGACCCGAGAGACACTACGAGAACTACAGGGCACAGTGTATCCAGAGCATGACCCGGCTAGTAGTG
AAGGAACGGAATCGAAGGACAGATCCAGAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206877 representing BC055101
 Red=Cloning site Green=Tags(s)

MDHSLGWQNSVPEDGTEAGIKHFLEDSSDDAELSKFVKDFPGSEPYHSAESKTRVARPQILEPRPQSPD
 LCDDDFEFRGSLWPQPSDSQQYFSAPAPLSPSSRPRSPWGKLDPYDSSDDKEYVGFATLPNQVHRKSVK
 KGFDFTLMVAGESGLGKSTLVNSLFLTDLYRDRKLLGAERIMQTVEITKHAVDIEEKGVRLRLTIVDTP
 GFGDAVNNTCEWKPVAEYIDQQFEQYFRDESGLNRKNIQDNRVHCCLYFISPFHGHLRPLDVEFMKALHQ
 RVNIVPILAKADTLTPPEVDRKKCKIREEIEHFGIKIYQFPDCDSDEDEDFKLQDQALKESIPFAVIGSN
 TVVEARGRRVRGRLYPWGIVEVENPGHCDFVKLRTMLVTRTHMQDLKDVTRETHYENYRAQCIQSMTRLV
 KERNRKRDRSRN

TRTRPLE – GFP Tag – V

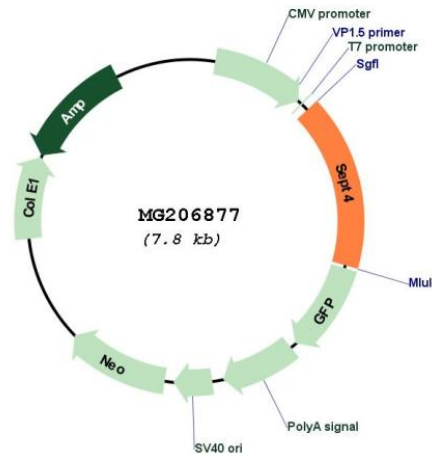
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC055101

ORF Size:	1293 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:	<ol style="list-style-type: none">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:	BC055101.1
RefSeq Size:	1680 bp
RefSeq ORF:	1295 bp
Locus ID:	18952
Cytogenetics:	11 C
Gene Summary:	Filament-forming cytoskeletal GTPase. Forms a filamentous structure with SEPTIN12, SEPTIN6, SEPTIN2 and probably SEPTIN4 at the sperm annulus which is required for the structural integrity and motility of the sperm tail during postmeiotic differentiation (By similarity). May play a role in cytokinesis (Potential). May play a role in platelet secretion (By similarity). [UniProtKB/Swiss-Prot Function]