

Product datasheet for **MR229873**

Sept4 (NM_001284394) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sept4 (NM_001284394) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sept4
Synonyms:	ARTS; Bh5; OTTMUSG00000001265; Pnutl2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR229873 representing NM_001284394
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCATTCACTGGGATGGCAAGGAACTCTGTCCCCGAGGACGGGACTGAAGCTGGGATCAAGCACT
 TCCTGGAGGACAGCAGTGATGATGCTGAGCTGAGCAAGTTCGTGAAGATTTCCCAGGAAGCGAACCTA
 CCACTCAGCGGAGTCCAAGACAAGGGTGGCCAGGCCCCAGATCTTGGAGCCAAGGCCCCAGAGCCAGAC
 CTCTGTGATGATGACGTGGAGTTTAGAGGCTCCTTGTGGCCCCAGCCCTCTGACAGTCAGCAGTACTTCA
 GTGCCCCAGCCCCTCTCAGCCCTTCTCCAGGCCCCGAGTCCATGGGGCAAGCTTGATCCTTATGATTC
 CTCTGAGGATGACAAGGAGTATGTGGGCTTGAACCCCTCCCAATCAAGTCCACAGGAAGTCTGTGAAG
 AAAGGCTTTGACTTTACTCATGGTGGCAGGAGAATCTGGTCTGGGTAATCCACTCTTGTCAACAGCC
 TCTTCTCACTGACTTGTACCGGATCGGAAACTGCTGGGCGCCGAAGAGCGGATCATGCAAACCGTGA
 GATTACTAAGCACGCAGTGGATATAGAAGAGAAGGGAGTGAGGCTGCGGCTCACCATTGTGGACTCCA
 GGATTTGGGGATGCAGTCAACAACAGAGTGTGGAAGCCTGTGGCCGAATACATCGACCAGCAGTTTG
 AGCAGTACTTCCGAGACGAGAGTGGCTGAACCGCAAGAACATCCAGGACAACCGGGTGCCTGCTGCCT
 GTACTTCACTCCCCGTTTGGCCACGGGCTCCGGCCATTGGATGTTGAATTCATGAAGGCCCTGCATCAG
 CGGGTCAACATTGTGCCTATCTTGGTAAGGCGGACACTGACGCCCTCCTGAAGTGGACCGAAAGAAAT
 GCAAAATCCGGGAGGAGATCGAGCACTTTGGAATCAAGATCTATCAGTCCCAGACTGTGATTCGGATGA
 GGACGAGGACTTCAAATTACAGGACCAAGCCCTAAAGGAAAGCATCCCATTTGCGGTGATTGGCAGCAAC
 ACTGTGGTAGAAGCCAGGGGGCGGAGAGTTCGAGGCCCTCTACCCTTGGGTCATCGTGGAAAGTGGAAA
 ACCCAGGTCAGTGCAGCTTTGTCAAGTTGAGGACGATGCTGGTGGTACCCACATGCAGGACCTAAAGGA
 TGTGACCCGAGAGACACACTACGAGAACTACAGGGCACAGTGTATCCAGAGCATGACCCGGCTAGTAGTG
 AAGGAACGGAATCGCAAGGACAGATCCAGAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229873 representing NM_001284394
 Red=Cloning site Green=Tags(s)

MDHSLGWQGNVPELGTEAGIKHFLEDSDDAELSKFVKDFPGSEPYHSAESKTRVARPQILEPRPQSPD
 LCDDDFEFRGSLWPQPSDSQQYFSAPAPLSPSSRPRSPWGKLDPYDSEDDKEYVGFATLPNQVHRKSVK
 KGFDFTLMVAGESGLGKSTLVNSLFLTDLYRDRKLLGAEERIMQTVEITKHAVDIEEKGVRLRLTIVDTP
 GFGDAVNTECWKPVAEYIDQQFEQYFRDESGLNRNKNIQDNRVHCLLYFISPFGLRLPLDVEFMKALHQ
 RVNIVPILAKADTLTPPEVDRKCKIREEIEHFGIKIYQFPDCSDEDEDFKLQDQALKESIPFAVIGSN
 TVVEARGRRVRGRLYPWGIVEVENPGHCDVFKLRTMLVRTHMQDLKDVTRETHYENYRAQCIQSMTRLVY
 KERNRKRDRSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_001284394

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:

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: [NM_001284394.1](#), [NP_001271323.1](#)
RefSeq Size: 1670 bp

RefSeq ORF: 1296 bp

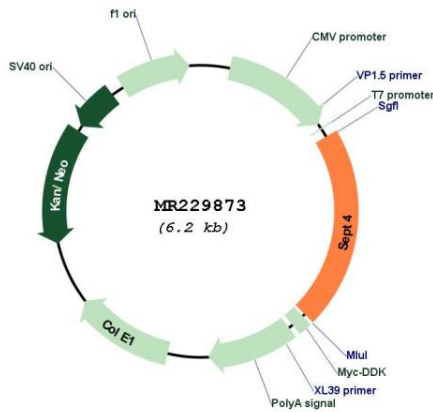
Locus ID: 18952

UniProt ID: [P28661](#)
Cytogenetics: 11 C

MW: 49.4 kDa

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]

Product images:



Circular map for MR229873