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Product datasheet for MR206812

Sept6 (BC010489) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sept6 (BC010489) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sept6
Synonyms:	2810035H17Rik; C920001C06Rik; mKIAA0128; Sep6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206812 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGCGGCCGATATAGCTCGCCAGGTGGGCGAAGATTGTCGAACTGTCCCCCTGGCTGGACATGTGG
GGTTCGACAGCTTGCCTGACCAGCTGGTGAATAAGTCAGTCAGCCAGGGCTTCTGCTTCAACATCCTGTG
CGTGGGGGAGACAGGTTTGGGCAAGTCCACGCTCATGGATACCCTGTTTAACACCAAGTTTGAAGGGGAG
CCAGCGACCCACACACAGCCAGGGGTTCAGCTCCAGTCCAATACCTACGACCTCCAGGAGAGCAACGTGG
GGTTGAAACTCACAATTGTGAGCACTGTAGGCTTTGGGGATCAGATCAACAAGGAGGACAGCTACAAGCC
CATCGTGGAATTCATTGATGCTCAGTTTGAGGCCTACCTACAAGAGGAGCTGAAGATCCGAAGAGTACTG
CACTCCTACCATGACTCCCGAATCCATGTCTGCTTGTATTTCATTGCCCCGACAGGACATTCGCTTAAGT
CTCTGGACCTAGTGACCATGAAGAAGCTGGATAGTAAGGTGAACATCATTCCCGTTATTGCCAAGTCAGA
TGCCATTTCTAAGAGTGAGCTGGCAAAGTTCAAGATCAAAATCACCAGCGAACTTGTGAGCAATGGAGTC
CAGATCTATCAGTTCCCCACAGACGATGAGTCGGTGAGCGAGATCAATGGAACCATGAATGCCCACCTGC
CGTTTGCTGTTGTTGGCAGCACAGAAGAAGTGAAGATAGGCAACAAGATGATGCGGGCTCGGCAGTATCC
TTGGGGGACTGTGCAGGTTGAAAACGAGGCTCACTGCGACTTTGTGAAGCTGCGGGAGATGCTGATTCGG
GTCAACATGGAGGATCTGCGGGAGCAGACCCACGCCCGGCACTATGAATTGTACCGCCGCTGTAAGCTGG
AGGAGATGGGCTTCAAGGACACCGACCCTGACAGCAAACCATTCAGTTTGCAGGAGACATATGAGGCAAA
GAGAAATGAGTTCCTTGGGGAGCTCCAGAAGAAAGAAGAGGAGATGAGGCAGATGTTTGTCCAGAGAGTC
AAAGAGAAAGAAGCGGAGCTCAAGGAGGCTGAAAAAGAGCTGCATGAGAAATTTGACCGTCTGAAGAAAC
TGCACCAGGAAGAGAAGAAGAAGCTGGAGGATAAGAAGAAATGTCTGGATGAGGAAATGAACGCCTTCAA
GCAGAGAAAGGCGGCAGCTGAGCTGCTCCAGTCTCAGGGCTCTCAGGCTGGGGGCTCACAGACTCTGAAA
AGGGACAAAGAGAAGAAGAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

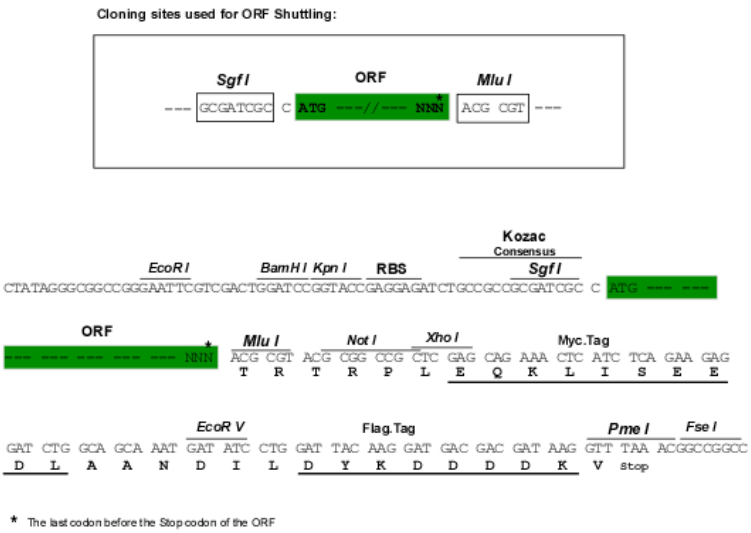
>MR206812 protein sequence
Red=Cloning site Green=Tags(s)

MAAADIARQVGEDCRTVPLAGHVGFDSLPDQLVNKSVSQGFCFNILCVGETGLGKSTLMDTLFNTKFEGE
PATHTQPGVQLQSNTYDLQESNVGLKLTIVSTVGFGDQINKEDSYKPIVEFIDAQFEAYLQEELKIRRVL
HSYHDSRIHVCLYFIAPTGHSLKSLDLVTMKKLDSKVNIIPVIAKSDAISKSELAKFKIKITSELVSNGV
QIYQFPTDDESVSEINGTMNAHLPFAVVGSTEEVKIGNKMMRARQYPWGTVQVENEAHCDFVKLREMLIR
VNMEDLREQTHARHYELYRRCKLEEMGFKDTDPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVQRV
KEKEAELKEAEKELHEKFDRLKKLHQEEKKKLEDKKKCLDEEMNAFKQRKAAAELLQSQGSQAGGSQTLK
RDKEKKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC010489

ORF Size: 1281 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: BC010489, AAH10489

RefSeq Size: 2126 bp

RefSeq ORF: 1283 bp

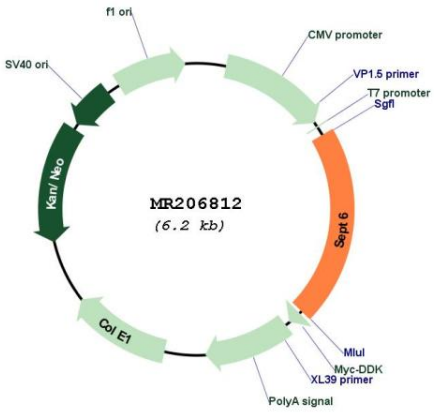
Locus ID: 56526

Cytogenetics: X A3.3

MW: 48.8 kDa

Gene Summary: Filament-forming cytoskeletal GTPase. Required for normal organization of the actin cytoskeleton. Involved in cytokinesis. 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). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206812