

Product datasheet for **MR207039**

2010317E24Rik (BC070477) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2010317E24Rik (BC070477) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	2010317E24Rik
Synonyms:	ang, RP23-47P18.4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207039 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCCGAGCGTGGCCGCTATCGCACGCTGCGCCGCTCCTAGTACAGAGGGGCTACCGGAGCCTTTCTCCAGAGCCTGCGCACCTCTTCGACATCCTGGACGACCGCAACGCGGCTACGTGCACCTGCGGGAGATCGAGTCCCCTGGCAAGGTGCAGACGCACGCGAGCTGCCGTGCGGCGTCTCGAGGGCCTGCGCCAGGTGCCCGGCCAATGGTACCTGACCTTCGAGCGTTTCGTAGCGGGCTTGCACACCTCGCTGCTGAAAGCCGACGCGGCCAGCGGATCAGGCACGCGTGCAGGCCCGGCTGGGACCAGTGTCCCTGCAGCAGCGCTGATGTTTCGACCCGCGATGAGCCGCGGACTGTCTGGAGAGAAAGCCTCTGCCTCTGAGTGCCTGCCCTGCTTCTGGTGGCCCCAGTGGCACCTCCCGAACCTGAGCTGTTATGTGTCCCGTGGAGCGCGCTCTGCCACAGAGACCGAGCGGCCCTGAGCAAGGCGCTGGAGCAAATCCCAGCGCGGATTTGGTGCAGCAGCCTGTAAGACCTGGCAAGGGCACAGGTGAAGCCCGCAGGCTCCACGGGCCGAGCGAGCGTCTGAGGCATACCATACCAATGGTGTGGACTGCAGCCTGTTGAAGCAGATGAAGGAGTTAGACCAGGAACAGGAGGTGCTTCTGCAGGGCCTGGAGATGATGGCACGGGGCCGAGACTGGTACCAGCAGCAGCTGCAGCGTGTGCAGGAACGTCAGCGCCGCTGAGCCAGAGCAGAGCTGCTGCAGACTTTGGGGCTGAAGGAAGCCCCCGCCTCTGGGGAGGTTGCTGCCAAAGTACAGGAGGTGGCCCGGTGCCTGGGGAGCTGTTGACTGCAGCCTGCTCTGGCAGAGTGAAGTCTCTGGAGGCTGCCTGGCATCCCTTGTCTTGTCTGGATGCTATGCCAGGA AAGGTCTGGCTCACTGTGTACTCCACAGGCTTCGCTTCGTCTCTTTAGGGCCCTGGGCCCTCCCTCACCTCAACTCCAGTCTGGCAGCAACAGACCATCTCATGCTGAAAGAACAGAACCGGCTTCTCACTCAGGTGAGGTTGGGAAGATGGGGCTGGGGCTGGAGGCCAGCAAACCTGACCGCCTGCCTGCCTGCTCGCC TGCCAGGAGGTGACTGATAAGAGTGAAGCGCATCACGCAGCTGGAGCAGGAGAAGTCTGCACTCATCAAG CAGCTGTTTGGAGCCGAGCGCTCAGCCAGCAGGATTCGGGACCTCTGGACTCCACTTTTCATC

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207039 protein sequence
 Red=Cloning site Green=Tags(s)

MAERGRLSHAAPAPSTEGLPRAFQLSLRFLFDILDDRQRGYVHLREIESRWQADARELPCGVLEGLRQV APANGYLTFERFVAGLRSLKADGGQRDQARVAARPGDQSSLQQLRMFAPADEPRTVLERKPLPLSACP ASGGPSGTSRNPPELLCVPVEAASCPTEETERPLSKALEQIPADLGAACKTLGKGTGEARQAPRARGERR RHTITNGVDCSLLKQMKELDQEQEVLLQGLEMMARGRDWYQQQLQRVQERQRRLSQSRAAADFGAEGSPR PLGRLLPKVQEVARCLGELLTAACSGRVSALAAWHPLSLFWMLCQERSGSLCTSTGSAFVLFRAFGPSL TLNSSLAAADHPHAERTEPASHSGEVWEDGAGAGGPANPDRLPACSPAQEVTDKSERITQLEQEKALIK QLFEARALSQQDSGPLDSTFI

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:


ACCN: BC070477

ORF Size: 1323 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: [BC070477](#), [AAH70477](#)

RefSeq Size: 1779 bp

RefSeq ORF: 1325 bp

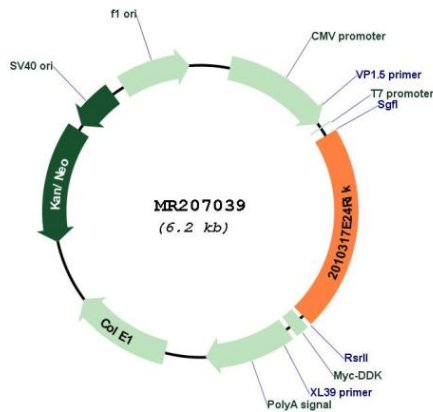
Locus ID: 72080

Cytogenetics: 2 A3

MW: 47.9 kDa

Gene Summary:

Plays a role in planar mitotic spindle orientation in retinal progenitor cells (RPCs) and promotes the production of symmetric terminal divisions (PubMed:26766442). Negatively regulates the mitotic apical cortex localization of GPSM2 (By similarity). Involved also in positive regulation of cell proliferation and tumor cell growth (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MR207039