

Product datasheet for **MR206808**

Arl13b (NM_026577) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arl13b (NM_026577) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arl13b
Synonyms:	A530097K21Rik; A930014M17Rik; Arl2l1; C530009C10Rik; hnn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206808 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTCAGTCTGATGGCCAACCTGCTGCAACTTGTTCGAAGCGGTGGCGGGAGCCTGTCAGAAAGGTGACAC
 TTGTGATGGTCGGCCTTGATAATGCTGGTAAAACAGCCACAGCAAAGGGAATCCAAGGAGAGCATCCTGA
 AGACGTAGCTCCCACTGTTGGCTTTTCTAAAATTGATCTGAGACAAGGAAAGTTCCAAGTTACCATCTTT
 GACTTAGGAGGTGAAAAAGAATTTCGGGAATTTGGAAGAATTATTATGCTGAATCCTATGGGGTAATAT
 TTGTTGTGGATCCAGTGATGAGGAGAGAATGGAAGAAACAAAGGAGACAATGTCCGAAGTGCTAAGACA
 CCCGAGGATATCAGGAAAGCCTATATTGGTGTGGCCAACAAGCAAGACAAGGAGGGGGCTTTAGGCGAA
 GCGGATGTGATTGAGTGTCTCTCGCTGGAGAAGCTGGTCAACGAGCACAAGTGCCTGTGTCAGATCGAAC
 CTTGTTACAGCAGTCTGGGATATGAAAAGAAAATTGACAAGTCCATTAAGGAGGGGCTTTATTGGCTACT
 GCATATCATTGCAAAGGACTTTGATGCCTTAAGTGAACGCATCCAGAAAGACACAACCTGAACAGCGAGCT
 CTTGAGGAACAAGAGAAACGTGAGAGGGCTGAACGAGTCCGGAAGTTAAGGGAAGAAAGAGAACGAGAGC
 AGACGGAACTTGATGGGACCAAGTGGTCTGGCTGAGATTGACTCAGGACCAGTTCTTGCGAATCCTTTCCA
 ACCCATTGCAGCTGTAATCATTGAGAATGAAAAGAAGCAGGAAAAAGAGAAAAAGAGCAGACCGTGGAG
 AAGGACAGTGATGTTGGTCTCCTAGAACATAAAGTGGAGCCAGAGCAAGCAGCGCCTCAGAGTGAGGCGAG
 ATTGCTGCCTCCAAAACCTGACGAGCGAGTGGTGGACAGTTACAGGGAGGCACTGTGCGCAGCAGCTGGA
 CAGTGAGGATGAGCAGGACCAGCGAGGGTCAGAGTCCGGGAAAACAGTAAGAAGAAAACCAAGAAACTA
 AGAATGAAAAGGAGTCAGCGGGTAGAACCAAGTCAATACAGACGAGTCTACTCCAAAGAGTCCCACGCCTC
 CCCAACCTCCCCCTCCTGTTGGCTGGGGAACCCCAAAGTCACTAGACTTCCAAAACCTTGAGCCTCTTGG
 TGAACACGTCACAATGATTTCTATGGGAAGCCGCTGCCTCCCCTGGCTGTGCGACAGAGACCTAACGGT
 GATGCTCAGGACACGATCTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206808 protein sequence
 Red=Cloning site Green=Tags(s)

MFSLMANCCNLFKRWRPVRKVTLMVMGLDNAGKTATAKGIQGEHPEDVAPTGVGFSKIDLRQGFQVTIF
 DLGGGKRIRGIWKNYYAESYGVIFVVDSSDEERMEETKETMSEVLRHPRISGKPIILVLANKQDKEGALGE
 ADVIECLSLEKLVNEHKLCQIEPCSAVLGYGKKIDKSIKKGLYLLHIIAKDFDALSERIQKDTTEQRA
 LEEQEKREERAERVRLREEREREQTELDGTSGLAEIDSGPVLANPFQPIAAVIIENEKKQEKEKKKQTV
 KSDSDVGLLEHKVEPEQAAPQSEADCLQNPDERVVDSYREALSQQLDSEDEQDQRGSESGENSKKTKKL
 RMKRSQRVPEPVNTDESTEPKSPTPPPPPVWGTPKVTRLPKLEPLGETRHNDFYGKPLPLAVRQRPNG
 DAQDTIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_026577

ORF Size: 1284 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_026577.2](#), [NP_080853.2](#)

RefSeq Size: 3541 bp

RefSeq ORF: 1284 bp

Locus ID: 68146

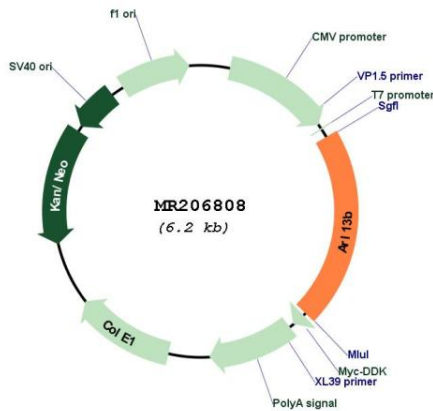
UniProt ID: [Q640N2](#)

Cytogenetics: 16 C1.3

MW: 48.1 kDa

Gene Summary: Cilium-specific protein required to control the microtubule-based, ciliary axoneme structure. May act by maintaining the association between IFT subcomplexes A and B. Binds GTP but is not able to hydrolyze it; the GTPase activity remains unclear. Required to pattern the neural tube. Involved in cerebral cortex development: required for the initial formation of a polarized radial glial scaffold, the first step in the construction of the cerebral cortex, by regulating ciliary signaling (PubMed:23817546). Regulates the migration and placement of postmitotic interneurons in the developing cerebral cortex (PubMed:23153492). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206808