

Product datasheet for MC201491

Arl6 (NM_019665) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arl6 (NM_019665) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arl6
Synonyms:	1110018H24Rik; 2210411E14Rik; BBS3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC018497 sequence for NM_019665
 CGCCGCGCGCCGGGGCGCCTGCTCAGCCACTGATGCTCGCATCCTGGGTGAACGGGCTGTTTCTCCCAAC
 TTGTAGAAGGGGCTGTGCTTGGGACAAGGGAACCTTCTACGGAGGCATAGAGAGGAAGACTGAGGCTCC
 GGGGAAGATCCCACCGCGAAACGGGTACAAGAGTGCCTTTTCTGTCTTGTGAGCCCTTGGCCTT
 TGGATTGGCGTCAAAGATCAGTGCTCTTTAAATATTTAAGCCGTGATATGGTCTTCTGGACAGACTTTC
 AGGTTTGTGGCCTGAAGAAGAAGGAGTTTCATGTTCTGTGCCTGGGGCTGGATAACAGTGGGAAAACC
 ACAATCATTAACAAGCTGAAGCCTTCCAACGCTCAATCTCAAGATATAGTTCCAACCATAGGATTTAGCA
 TAGAGAAATTCAGTCTCCAGTTTGTCTTTACAGTGTGGACATGTCAGGTCAAGGAAGGTACAGGAA
 TCTCTGGGAACACTATTATAAAGATGGACAAGCCATTATTTTTGTCATTGATAGTAGTGATAAGTTAAGA
 ATGTTTGTGGCCAAAGAAGAGCTTGATACCCTTCTGAATCACCCAGATATTAAGCACCGTCGAATCCAA
 TCTTGTCTTTGCAAACAAAATGGATCTTAGAGACTCAGTGACCTCTGTGAAGGTGTCTCAGTTGCTGTG
 CTTAGAGAGCATTAAAGACAAGCCGTGGCATATTTGTGCTAGTGACGCCATCAAAGGAGAAGGCCTGCAG
 GAAGGCGTGGACTGGCTCCAAGATCAGATCCAAGCTGTGAAGACGTGAAGAGATAGTCCCTGGAGACCTC
 AGTGATTTTTCAATGAATGGAATCTGCGTAAGGCATACTGGTTAATCTCAAATTTATTTAAAAGATATA
 TGTAACCTGAGAATTTTTAAACCACATTCTGCTTGGTGGACTCTGGAAGAAGCTTTAAAGGGCTT
 TAGGACTTGAGACATTGTTAATCTGGCCATTACTATACAAAATCTAATAATCTTTGGAACCTCTAGTT
 ACCAACTTCTTGTAAAAGTCTACATCATTGTGATAAGTAGAATATATAAATACCATTATAAGCCATCTC
 AATATCCTATCATGATTTATGATATATTTGATGATTTTTATTTTCAATTGTTTTCTAAAAGTTTAGTTC
 ATTGTATGACTTTGAAGTGCAAATGTGTTAGCGAAACACCTTTAAAGATTTATAAGGGATCCCAGGTAA
 TTAGTATATGAAATTTTTATTGTGCTACTATCAATAAAAAATGAAATACAAAAA

Restriction Sites:	RsrII-NotI
ACCN:	NM_019665
Insert Size:	561 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC018497 , AAH18497
RefSeq Size:	1326 bp
RefSeq ORF:	561 bp
Locus ID:	56297
UniProt ID:	O88848
Cytogenetics:	16 C1.3
Gene Summary:	Involved in membrane protein trafficking at the base of the ciliary organelle (By similarity). Mediates recruitment onto plasma membrane of the BBSome complex which would constitute a coat complex required for sorting of specific membrane proteins to the primary cilia (By similarity). Together with BBS1, is necessary for correct trafficking of PKD1 to primary cilia (PubMed:24939912). Together with the BBSome complex and LTZL1, controls SMO ciliary trafficking and contributes to the sonic hedgehog (SHH) pathway regulation (By similarity). May regulate cilia assembly and disassembly and subsequent ciliary signaling events such as the Wnt signaling cascade (By similarity). Isoform 2 may be required for proper retinal function and organization (PubMed:20333246).[UniProtKB/Swiss-Prot Function]