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Product datasheet for MC229461

Arap1 (NM_027180) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arap1 (NM_027180) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arap1
Synonyms:	2410002L19Rik; Centd2; mKIAA0782
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229461 representing NM_027180 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACCAAGGAGGAGCCCCTGCCGAGCCGAGTCCCACGGGCTGTGCGTGTGGCTAGTCTGCTGAGCGAGG GGGAGGAGCTGTCTGGGGATGATTCGGAAGATGACGATGACCATGCCTATGAGGGTATCCCCAATGGTGG GTGGCCAACGAGTGGCCTGAATCCACCCTTACGCAGCCTGATCCCTGATCTCCCACTGCACCCCATGGAT GAGTTGCCTGGGGGTCCCACCCCCATCACACCTGTCATCAAGGCTGGCTGGCTGGACAAGAACCCACCAC AGGGGTCTTATATCTATCAGAAGCGATGGGTGAGACTGGACGCTGATTACCTGCGATACTTTGACAGTAA CAAGGACGCCTACTCTAAGCGCTTTGTTCCTGTGGCCTGCATCTGCCGAGTAGCTCCTATTGGAGACCAG AAGTTTGAAGTGATCACAAATAATCGGACCTTCGCCTTCCGGGCAGAGAGTGATGTGGAGCGGAACGAGT GGATGCAGGCCCTGCAGCAGGCAGTAGTTGAGCATCGAGCCCGTTTTCGGCTTTCTAGTGCTTCTGTGTT GGGAGTCCGAGGCTCCGAGCAGCCTGACCGTGCTGGCAGCCTGGAGCTACGAGGCTTCAAGAATAAGCTT TACGTGGCTGTGACTGGGGACAAAGTACAGCTCTATAAGAATCTGGAGGAATTCCATCTGGGCATTGGTA TCACCTTTATCGACATGAATGTGGGCAATGTCAAGGAAGTGGATCGGCGCAGCTTTGACCTCACTACCCC CTACCGCATCTTCAGCTTCTCGGCTGATTCAGAGTTAGAGAAGGAACAGTGGCTGGAGGCCATGCAGGGA GCCATCGCAGAGGCCCTATCTACCTCAGAGGTGGCTGAGCGCATCTGGGCCGCAGCCCCCAACAGGTTCT GTGCCGACTGTGGGGCCGCCCAGCCTGACTGGGCCTCCATCAACCTCTGCGTTGTCATCTGCAAGCGCTG TGCAGGGGAGCACCGCGGCCTGGGTGCAGGAGTGTCCAAGGTGCGGAGTTTGAAGATGGACAGGAAGGTG TGGACAGAAGCACTCATCCAGCTCTTCTTACATCTGGGCAATGGCCCCGGGAACCACTTCTGGGCTGCTA ATGTGCCTCCTAGTGAGGCCCTGGAGCCCAGCAGCAGCCCTGGTGCCCGGCGGTATCACCTGGAGGCCAA GTACAGAGAGGGCAAGTACCGCCGCTACCATCCGCTCTTTGGCAACCAAGAGGAACTGGACAAGGCCCTG TGTGCTGCAGTTACTACCACTGACCTGGCTGAGACCCAGGCACTCCTGGGCTGTGGGGCTGGGGTCAGCT GCTTCTCAGGGGACCCAGCAGCTCCCACACCCCTGGCTCTTGCTGAGCAGGCCGGACAGACTCTGCAGAT GGAGTTTCTACGGAATAATCAGAGTACAGAGGTCCCTCGGTTGGACTCAGTGAAGCCCTTGGAAAAGCAC TACTCCGTTACCCTGCCAACTGTGAGCCACAGCGGCTTCCTGTACAAAACTGCTTCTGCCGGCAAACCTC

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TGCAGGACCGCCGTGCCCGGGAAGAGTTCAGCCGGCGCTGGTGTGTCCTGAGTGATGGGGTCCTGAGCTA
CTATGAAAACGAACGGGCAGTGACACCCAATGGGGAGATTCGGGCCAGCGAGATAGTATGCCTAGCAGTT
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TGGAGGAGAAGAAGGTGGAGACTGAACAGCATGTTAAGATCCCAGCATCCATGACTGCAGAGGAGCTTAC
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GGTGGCTTCCACGATCGCTACTTCATTCTCAACAGCAGCTGCCTACGGCTCTACAAGGAGGTCCGGAGTC
ACCGGCCTGAGAAGGAGTGGCCTGTCAAGAGCCTCAAAGTCTACCTGGGTGTAAAGAAGAAACTGCGGCC
ACCTACTTGCTGGGGCTTCACGGTGGTGCACGAGACAGAAAAGCACGAGAAGCAGCAGTGGTACCTCTGC
TGTGACACGCAGATGGAACTTCGAGAGTGGTTTGCCACCTTCCTCTCTGTGCAGCACGATGGCCTGGTGT
GGCCCTCCGAGCCATCTCGAGTGTCCCGGGCAGTGCCTGAGGTCCGGATGGGCAGTGTATCGCTGATCCC
TCTACGAGGCAGTGAAAATGAAATGCGCCGGAGTGTGGCAGCCTTCACTGCTGACCCCCTTTCCCTTCTC
CGCCATGTCTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_027180

Insert Size: 3582 bp

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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_027180.3, NP_081456.2
RefSeq Size:	4929 bp
RefSeq ORF:	3582 bp
Locus ID:	69710
UniProt ID:	Q4LDD4
Cytogenetics:	7 E2
Gene Summary:	Phosphatidylinositol 3,4,5-trisphosphate-dependent GTPase-activating protein that modulates actin cytoskeleton remodeling by regulating ARF and RHO family members. Is activated by phosphatidylinositol 3,4,5-trisphosphate (PtdIns(3,4,5)P3) binding. Can be activated by phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4,5)P2) binding, albeit with lower efficiency. Has a preference for ARF1 and ARF5 (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) differs in the 5' UTR and lacks some 5' coding sequence, compared to variant 3. These differences cause translation initiation at a downstream AUG and an isoform (1) with a shorter N-terminus compared to isoform 3. Variants 1 and 4 encode the same protein.