

Product datasheet for MC223889

Arap1 (NM_001040112) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arap1 (NM_001040112) 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: >MC223889 representing NM_001040112
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGATCGC

ATGACCAAGGAGGAGCCCTGCCGAGCCGAGTCCACGGGCTGTGCGTGTGGCTAGTCTGCTGAGCGAGG
 GGGAGGAGCTGTCTGGGGATGATTCGGAAGATGACGATGACCATGCCTATGAGGGTATCCCAATGGTGG
 GTGGCCAAACGAGTGGCCTGAATCCACCCTTACGCAGCCTGATCCCTGATCTCCACTGCACCCCATGGAT
 GAGTTGCCTGGGGTCCCACCCCATCACCTGTCAAGGCTGGCTGGTGGACAAGAACCACCCAC
 AGGGGTCTTATCTATCAGAAGCGATGGGTGAGACTGGACGCTGATTACCTGCGATACTTTGACAGTAA
 CAAGGACGCCTACTCTAAGCGCTTTGTTCTGTGGCCTGCATCTGCCGAGTAGCTCCTATTGGAGACCAG
 AAGTTTGAAGTATCACAATAATCGGACCTTCGCCTTCGGGCGAGAGAGTGTGTGGAGCGGAACGAGT
 GGATGCAGGCCCTGCAGCAGGCAGTAGTTGAGCATCGAGCCGTTTTCGGCTTTCTAGTGCTTCTGTGTT
 GGGAGTCCGAGGCTCCGAGCAGCCTGACCGTGTGGCAGCCTGGAGCTACGAGGCTTCAAGAATAAGCTT
 TACGTGGCTGTGACTGGGACAAAGTACAGCTCTATAAGAATCTGGAGGAATCCATCTGGGCAATTGGTA
 TCACCTTATCGACATGAATGTGGCAATGTCAAGGAAGTGGATCGGCGCAGCTTTGACCTCACTACCCC
 CTACCGCATCTTCAGCTTCTCGGCTGATTCAGAGTTAGAGAAGGAACAGTGGCTGGAGGCCATGCAGGGA
 GCCATCGCAGAGGCCCTATCTACCTCAGAGGTGGCTGAGCGCATCTGGGCCGAGCCCCAACAGTTCT
 GTGCCGACTGTGGGGCCGCCAGCCTGACTGGGCTCCATCAACCTCTGCGTTGTCTGCAAGCGCTG
 TGCAGGGGAGCACCGCGCCTGGGTGCAGGAGTGTCCAAGGTGCGGAGTTTGAAGATGGACAGGAAGGTG
 TGGACAGAAGCACTCATCCAGCTCTTCTTACATCTGGGCAATGGCCCCGGGAACCACTTCTGGGCTGCTA
 ATGTGCCTCCTAGTGAGGCCCTGGAGCCAGCAGCAGCCCTGGTCCCGCGGTATCACCTGGAGGCCAA
 GTACAGAGAGGGCAAGTACCGCCGCTACCATCCGCTCTTTGGCAACCAAGAGGAAGTGGACAAGGCCCTG
 TGTGCTGCAGTTACTACCACTGACCTGGCTGAGACCCAGGCACTCCTGGGCTGTGGGGCTGGGGTCACT
 GCTTCTCAGGGGACCCAGCAGCTCCACACCCCTGGCTTTGCTGAGCAGGCCGACAGACTCTGCAGAT
 GGAGTTTCTACGGAATAATCAGAGTACAGAGGTCCCTCGTTGGACTCAGTGAAGCCCTTGGAAAAGCAC
 TACTCCGTTACCTGCCAACTGTGAGCCACAGCGGCTTCTGTACAAAAGTCTCTGCCGGCAAACCTC



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TGCAGGACCGCCGTGCCCGGAAGAGTTCA GCCGGCGCTGGTGTGCCTGAGTGATGGGGTCTGAGCTA
 CTATGAAAACGAACGGGCAGTGACACCCAATGGGGAGATTCGGGCCAGCGAGATAGTATGCCTAGCAGTT
 TCCCCTCTGGACACCCATGGCTTTGAGCACACCTTTGAGGTGTACACAGAGGGAGAACGGCTGTACCTGT
 TTGGGCTGGAGAATGCAGAGCTGGCTCATGAGTGGTCAAGTGCATTGCCAAGGCGTTCGTGCCTCCCCT
 GGCTGAGGACCTGCTAGCCCGGACTTTGAACGTCTTGGGCGCCTACCCTGTAAGCTGGCCTGAGCCTT
 CAGCAGGCTCAGGAAGGCTGGTTTGCCTTGACTGGCTCTGAGCTCCGGGCTGTCTCCAGAGGGGCCCT
 GGAAGAGCCGCTGCAGCTCCGAAACTGCAAGAGCTTCTATCCAAGGAGACAGCGAGAACCAAGTGCT
 GGTGCTGGTGGAGCGGAGGAGGACACTGTACATCCAGGGTGAGCGGCGGCTGGACTTCATGGCTTGGCTA
 GGGGTCATCCAGAAAGCAGCAGCCAGCTTGGGAGACACACTATCAGAACAACAGCTTGGGGACTCGGACA
 TCCAGTGATTGTGTACCCTGTGTGGACTACATCACGCAGTGTGGCTTACCTCAGAGGGTATCTATCG
 AAAGTGTGGTCAGACCTCAAGACTCAGAGACTGCTAGACAGCCTCCGGCAGGACGCACGCTCTGTGCAC
 CTAAGGAGGGAGAACAGCACGTGGACGACGTCTCTCTGCACTCAAACGCTTCCCTCAGGACCTGCCCC
 ATGGGCTCTTACGCGTGCAGCGCCTGGCCTGGCTGGAGGCCCTGAGATCGAGGATGAGGAAGAAAA
 GATCTCCAGGTATCGAGAGCTCTTGGTGCATCTGCCCCCTGTCAACCGGGCCACTGTGAAGGCCCTTATC
 AGCCATCTGTACTGTGTACAGTCTTCTCAGACACAAACCAATGAACACACACAACCTGGCTATCGTGT
 TTGGGCTACACTCTTCCAGACAGACGGCAGGACTACAAGGCCGGAAGGTGGTGAAGACCTCATCAA
 CCACTACGTGGTGGTGTTCAGTGTGGACGAGGAGGAGCTGAGGAAGCAGAGGGAGGAAGTACCGCCATC
 GTGAAGATGCGAGTGGCTGGCACTGCCAGTGGGACCCAGCATGCTGGCGACTTCACTGCACAGTCTACC
 TGGAGGAGAAGAAGGTGGAGACTGAACAGCATGTTAAGATCCCAGCATCCATGACTGCAGAGGAGCTTAC
 TCTGGAGATTCTGGACCGCCGCAATGTGAGCATCAGGGAGAAGGACTACTGGACTTGCTTTGAGGTCAAC
 GAGAAGGAGGAGGCAGAGCGCCCGTGCACCTTGCAGAGAAGGTGCTGCCATTGTCCATGGGCTGGGCA
 TAGACAGCCATCTGGTGGTGAAGAAGTACCAGTCCATGGAGGCCATGCTGTTGTACTTGGCCAGCCGTGT
 GGGTGACACCAAGCATGGTATGATGAAGTTCCTGGAAGACCGCAGCCTCCTGGGCTGGGCTACCTTCG
 GGTGGCTTCCAGCATCGCTACTTCACTTCAACAGCAGCTGCCTACGGCTCTACAAGGAGGTCCGGAGTC
 ACCGGCCTGAGAAGGAGTGGCCTGTCAAGAGCCTCAAAGTCTACCTGGGTGTAAGAAAGAAACTGCGGCC
 ACCTACTTGCTGGGGCTTACGGTGGTGCAGAGACAGAAAAGCAGAGAAGCAGCAGTGGTACCTCTGC
 TGTGACACGCAGATGAACTTCGAGAGTGGTTTCCACCTTCTCTGTGCAGCAGATGGCCTGGTGT
 GGCCCTCCGAGCCATCTCGAGTGTCCCGGCAGTGCCTGAGGTCCGGATGGGCAGTGTATCGCTGATCCC
 TCTACGAGGCAGTAAAATGAAATGCGCCGGAGTGTGGCAGCCTTCACTGCTGACCCCTTCCCTTCTC
 CGCCATGCTGA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-RsrII

ACCN:

NM_001040112

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).

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_001040112.1](#), [NP_001035201.1](#)

RefSeq Size: 5314 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 (4) 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.