

Product datasheet for MC224470

Arap1 (NM_001040111) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Arap1 (NM_001040111) 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: >MC224470 representing NM_001040111
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGGCAGAGGGTTACGATGCCGCACTGTCTGTAGCTGAGTGGCTGCGGGCACTTCACCTGGAGCAGTACA
 CCGCACTCTTTGAGCAGCACGGACTGGTGTGGCCACCGAGTGCCAAGGCCTCAGCGATGCTGGCCTGCT
 AGACATGGGCATGCACCTCCCCGGCCACCGCCCGCATCCTGGCTGGTCTTCACCGCGCCCATGCACCC
 CCAGTCCCTCTGCCTCGCCCCGCCACGGCCCGTGGCGATGAAGCGACACATCTCCGTTACACCACTG
 TGCCCGTCACTCCACCAGAGCCGCCGCCACAGCTGGAGAGGATGAGGGTCTGCCTGCCGCTCCACCTAT
 CCCACCCCGCAGGAGCTGCCTCCACCTGCCTGCTTCACTCCGACATCCACAGCCGCCCCAGATCCTGTG
 CTGCCCCCACTGCCTGCCAAGAGACACTTGGTAGAACCAGCGTTCCTCCTGTCCCTCCTCGAACCCGGAC
 CCCCCTACCCACAGGCCAGCCTTCTTGCTAAGGAGGAGTTACTGCTGCCATCAGTGTACCCCGGTCCCA
 ACCAGAGCCTGCAGAGACTCCGTCACCCCTCCTGCCTGCCTTTCCCAAGGGGCCCTGCAGCCTCCGTCT
 CCTCCTCCCTGTCTCCTGTGATCCCTCCCAAGCCTCCTCGCTGCTCCCTGAGTTTGACGACTGTGACT
 ATGATGATGTCCCGAGGAGGGGCCAGGGGCCAGCCAGTGTGATGACCAAGGAGGAGCCCTCCCGGAG
 CCGAGTCCACCGGCTGTGCGTGTGGCTAGTCTGCTGAGCGAGGGGAGGAGCTGTCTGGGGATGATTCCG
 GAAGATGACGATGACCATGCCTATGAGGGTATCCCAATGGTGGTGGCCAACGAGTGGCCTGAATCCAC
 CCTTACGAGCCTGATCCCTGATCTCCCACTGCACCCCATGGATGAGTTGCCTGGGGTCCCACCCCAT
 CACACCTGTCAAGGCTGGCTGGCTGGACAAGAACCACCACAGGGTCTTATATCTATCAGAAGCGA
 TGGGTGAGACTGGACGCTGATTACCTGCGATACTTTGACAGTAACAAGGACGCCTACTCTAAGCGCTTTG
 TTCTGTGGCCTGCATCTGCCGAGTAGCTCCTATTGGAGACCAGAAGTTGAAGTATCACAATAATCG
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 GTTGTGAGCATCGAGCCGTTTTTCGGCTTTCTAGTGCTTCTGTGTTGGGAGTCCGAGGCTCCGAGCAGCCTG
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 ACAGCTCTATAAGAATCTGGAGGAATCCATCTGGGCATTGGTATCACCTTTATCGACATGAATGTGGGC
 AATGTCAAAGGAGTGGATCGGCGCAGCTTTGACCTCACTACCCCTACCGCATCTTCAGTCTCTCGGCTG



ATTCAGAGTTAGAGAAGGAACAGTGGCTGGAGGCCATGCAGGGAGCCATCGCAGAGGCCCTATCTACCTC
 AGAGGTGGCTGAGCGCATCTGGGCCGACGCCCCAACAGGTTCTGTGCCGACTGTGGGGCCGCCAGCCT
 GACTGGGCCTCCATCAACCTCTGCGTTGTATCTGCAAGCGCTGTGCAGGGGAGCACCCGCGCTGGGTG
 CAGGAGTGTCCAAGGTGCGGAGTTTGAAGATGGACAGGAAGGTGTGGACAGAAGCACTCATCCAGCTCTT
 CTTACATCTGGCAATGGCCCCGGAACCACTTCTGGGCTGCTAATGTGCCTCCTAGTGAGGCCCTGGAG
 CCCAGCAGCAGCCCTGGTGCCCCGGGTATCACCTGGAGGCCAAGTACAGAGAGGGCAAGTACCCGCCGCT
 ACCATCCGCTCTTTGGCAACCAAGAGGAACTGGACAAGGCCCTGTGTGCTGCAGTTACTACCAGTACCT
 GGCTGAGACCCAGGCACTCCTGGGCTGTGGGGCTGGGGTCAGCTGCTTCTCAGGGGACCCAGCAGCTCCC
 ACACCCCTGGCTCTTGCTGAGCAGGCCGACAGACTCTGCAGATGGAGTTTCTACGGAATAATCAGAGTA
 CAGAGGTCCCTCGGTTGGACTCAGTGAAGCCCTTGAAAAGCACTACTCCGTTACCCTGCCAACTGTGAG
 CCACAGCGGCTTCTGTACAAAAGTCTTCTGCCGCAAACCTCTGCAGGACCCGCTGCCCGGGAAGAG
 TTCAGCCGGCGTGGTGTCTGAGTGTGGGTCCTGAGCTACTATGAAAACGAACGGGCAGTGACAC
 CCAATGGGGAGATTCGGGCCAGCGAGATAGTAGCCTAGCAGTTTCCCCTCTGGACCCCATGGCTTTGA
 GCACACCTTTGAGGTGTACACAGAGGGAGAACGGCTGTACCTGTTTGGGCTGGAGAATGCAGAGCTGGCT
 CATGAGTGGGTCAAGTGCATTGCCAAGGCGTTCGTGCCCTCCCCTGGCTGAGGACCTGCTAGCCCCGGACT
 TTGAACGTCTTGGGCGCTACCCTGTAAAGCTGGCCTGAGCCTTCAGCAGGCTCAGGAAGGCTGGTTTGC
 CTTGACTGGCTCTGAGCTCCGGGCTGTCTTCCCAGAGGGGCCCTGGGAAGAGCCGCTGCAGCTCCGAAA
 CTGCAAGAGCTTTCTATCCAAGGAGACAGCGAGAACAAGTGTGGTGGTGGAGCGGAGGAGACAC
 TGTACATCCAGGGTGAAGCGGCTGGACTTTCATGGCTGGCTAGGGGTCCAGAAAGCAGCAGCCAG
 CTTGGGAGACACACTATCAGAACAACAGCTTGGGGACTCGGACATCCCAGTGATTGTGTACCCGCTGTGTG
 GACTACATCACGAGTGTGGCTTGACCTCAGAGGATCTATCGAAAGTGTGGTGCAGCTCCAAGACTC
 AGAGACTGCTAGACAGCCTCCGGCAGGACGCACGCTCTGTGCACCTAAAGGAGGGAGAACAGCAGCTGGA
 CGACGTCTCCTGCACTCAAACGCTTCTCAGGGACCTGCCGATGGGCTCTTACGCGTGCAGCAGCGC
 CTGGCCTGGCTGGAGGCCTCTGAGATCGAGGATGAGGAAGAAAAGATCTCCAGGTATCGAGAGCTTTGG
 TGCATCTGCCCTGTCAACCGGCCACTGTGAAGGCCCTTATCAGCCATCTGTACTGTGTACAGTGCTT
 CTCAGACACAAACCAATGAACACACACAACCTGGCTATCGTGTGGGCTACACTCTTCCAGACAGAC
 GGGCAGGACTACAAGGCCGCAAGTGGTGGAAAGACCTCATCAACCACTACGTGGTGGTGTTCAGTGTGG
 ACGAGGAGGAGCTGAGGAAGCAGAGGGAGGAAGTACGGCCATCGTGAAGATGCGAGTGGCTGGCACTGC
 CAGTGGGACCCAGCATGCTGGCGACTTCATCTGCACAGTCTACCTGGAGGAGAAGAAGGTGGAGACTGAA
 CAGCATGTTAAGATCCCAGCATCCATGACTGCAGAGGAGCTTACTCTGGAGATTCTGGACCGCCGAATG
 TGAGCATCAGGGAGAAGGACTACTGGACTTGTCTTGGAGTCAACGAGAAGGAGGAGGAGCAGAGCGCCGCT
 GCACTTTGCAGAGAAGGTGCTGCCATTGTCCATGGGCTGGGCATAGACAGCCATCTGGTGGTGAAGAAG
 TACCAGTCCATGGAGGCCATGCTGTTGACTTGGCCAGCCGTGTGGGTGACACCAAGCATGGTATGATGA
 AGTTCGGTGAAGACCGCAGCCTCCTGGGCTGGGGCTACCTTCGGGTGGCTTCCACGATCGTACTTTCAT
 TCTCAACAGCAGCTGCCACGGCTCTACAAGGAGTCCGGAGTACCCGGCCTGAGAAGGAGTGGCCTGTC
 AAGAGCCTCAAAGTCTACCTGGGTGTAAGAAGAAACTGCGGCCACCTACTTGTGGGGCTTACGGTGG
 TGCACGAGACAGAAAAGCAGGAGAAGCAGCAGTGGTACCTCTGCTGTGACACGCAGATGGAACCTCGAGA
 GTGGTTTGGCACCTTCTCTCTGTGCAGCAGATGGCCTGGTGTGGCCCTCCGAGCCATCTCGAGTGTCC
 CGGGCAGTGCCTGAGGTCCGGATGGGCAGTGTATCGCTGATCCCTCTACGAGGCAGTAAAAATGAAATGC
 GCCGGAGTGTGGCAGCCTTCACTGCTGACCCCTTCCCTTCTCCGCCATGCTGA

AGCGGACCGACGCTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001040111
Insert Size: 4326 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:	<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:	<u>NM_001040111.1</u> , <u>NP_001035200.1</u>
RefSeq Size:	5837 bp
RefSeq ORF:	4326 bp
Locus ID:	69710
UniProt ID:	<u>Q4LDD4</u>
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 (3) is the longest transcript and it encodes the longest protein (isoform 3).