

Product datasheet for **MR227528**

Agap1 (NM_001037136) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agap1 (NM_001037136) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agap1
Synonyms:	Centg2; Ggap1; mKIAA1099; R75364
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MR227528 representing NM_001037136
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAACCTACCAGCAGCAGCTGGCCAACCTCGGCTGCCATCCGGGCCGAGATCCAGCGCTTCGAGTCGGTCC
 ACCCCAACATCTACTCCATCTACGAGCTGCTGGAGCGCGTGGAGGAGCCGGTGTGCAGAACCAAGATTCG
 GGAGCAGCTCATCGCCATCGAAGATGCTTCGTGAACAGCCAGGAATGGACACTAGCCGATCGGTACCG
 GAGCTCAAAGTGGGAATTGTGGGTAACCTGGCCAGTGGCAAGTCTGCGCTGGTGCACCGGTACCTGACAG
 GCACGTACGTGCAGGAGGAATCTCCAGAAGGTGGCAGGTTCAAGAAGGAGATTGTTGTTGATGGACAGAG
 TTATCTGCTGCTGATTAGGGATGAAGGGGGCCCCCGAGGCACAGTTCGCCATGTGGGTGGACGCGGTCTC
 ATCTTTGTCTTCAGCTTGGAGGATGAGATCAGTTTCCAGACTGTCTACCATTACTACAGCCGAATGGCCA
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 TGCCCAAGTGTCCGCGGTACACATCAGCCAGACAAGTAACGGAGGTGGGAGTTTAAAGTACTACTCATCC
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 ACAACGGTGTGCTGACCTACACCCAGTTTACATGATTACATGCAGAATGTCCACGGCAAGAGATAGA
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 GGCTGGGTGACTCGGTGTGTTCCAGCCCAAGTATCTCCAGCAGCACCAGCCCAAGCTCGACCCACCCCC
 CTCCCCCAGCCCAACAGAAAGAAGCACCAGGAGGAAGAAAGTACCAGCAACTTCAAGGTGACGGGCTC
 TCAGGCACTGCTGAAGAGCAAGAAGAAACTTGGAGTTTATCATTGTGTCCTCACTGGCCAGACGTGGC
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 ACAACAGTAGCGGGAGGGCGCCAGTGTATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227528 representing NM_001037136
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MNYQQQLANSAAIRAEIQRFEVHPNIYSIYELLERVEEPVLQNQIREHVIAIEDAFVNSQEWTLRSVP
 ELKVGIVGNLASGKSALVHRYLTGTYVQEESEGGGRFKKEIVVDGQSYLLLIRDEGGPPEAQFAMWVDAV
 IFVFSLEDEISFQTVYHYYSRMANYRNTSEIPLVLVGTQDAISSNPRVIDDVARKLSNDLKRCTYYET
 CATYGLNVERVFQDVAQKIVATRKQQLSIGPCKSLPNSPSHSSVCSAQVSAVHISQTSNGGGSLSDYSS
 SVPSTPSTSQKELRIDVPPTANTPTPVRKQSKRRSNLFTSRKGSDDPKKKGLESRADSIGSGRAIPIKQ
 GMLLKRSGLSLNKEWKKKYVTLCDNGVLTYPHSLHDYMQNVHGKEIDLLRTTVKVPGRPPRATSACAPI
 SSPKTNGLAKDMSSLHISPNSDTGLGDSVCSSPSISSSTSPKLDPPPSPHANRKKHRRKKSTSNFKADGL
 SGTAEQEENLEFIIVSLTGQTWHFATTYEERDAWVQAIESQILASLQSCSSKNKSRLLTSQSEAMALQ
 SIRMNRGNSHCVDCTQNPWNWASNLGALMCIECSGIHRNLGTHLSRVSLDLDDWPMELIKVMSSIGNE
 LANSVWEEGSQGRTPSLDSTREEKERWIRAKYEQKLFLAPLPCTEFLGQQLLRATAEEDLRTVILLLA
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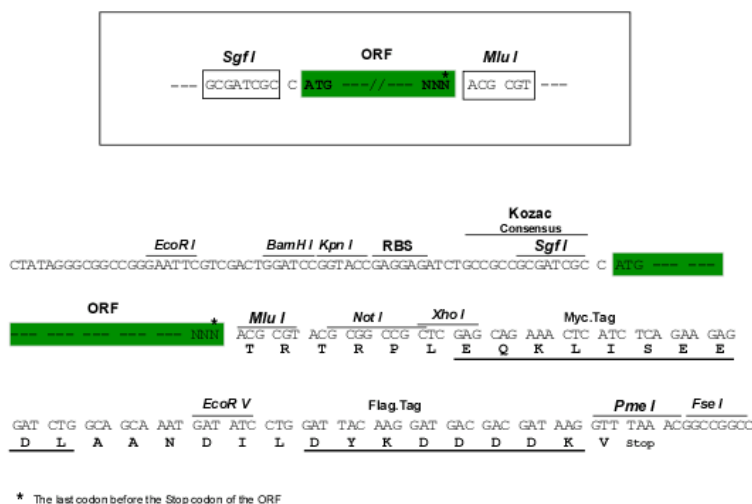
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9048_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001037136

ORF Size: 2412 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001037136.1](#), [NP_001032213.1](#)

RefSeq Size: 9422 bp

RefSeq ORF: 2415 bp

Locus ID: 347722

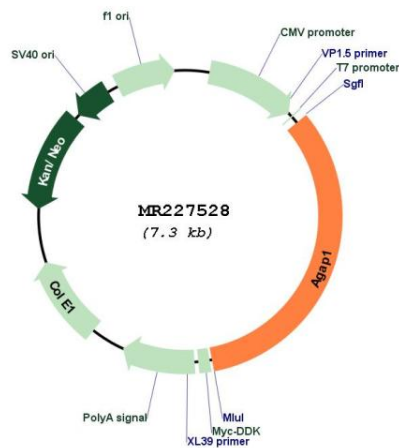
UniProt ID: [Q8B XK8](#)

Cytogenetics: 1 D

MW: 89.5 kDa

Gene Summary: GTPase-activating protein for ARF1 and, to a lesser extent, ARF5. Directly and specifically regulates the adapter protein 3 (AP-3)-dependent trafficking of proteins in the endosomal-lysosomal system (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227528