

Product datasheet for **MC229432**

Agap2 (NM_001301014) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Agap2 (NM_001301014) Mouse Untagged Clone
Tag: Tag Free
Symbol: Agap2
Synonyms: AGAP-2; Centg; Centg1; cnt-g1; mKIAA0167; PIKE
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229432 representing NM_001301014
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCGGGGCGGGCGCGCTTCAGCGCCGGACAACGACCTACCTCATCTCGCTGACCCTGGTCAAGC
 TCGAGTCGGTACCTCCGCCGCCCTTCTCCATCTGCAGCCGAGCCGGCGCCCCGGGGCCAGAGGCTC
 CGAGCCCCGAGATCCTGGCAGCCCCGAGGCTCGGAGGAACCCGGCAAGAAGCGGCACGAGCGTCTCTTC
 CACCGGCAGGATGCGCTGTGGATCAGTACCAGCAGCGCAGGCACCGGGGTGCGGAGCCCCCGCGCTGT
 CCCC GGCTCCGGCCAGTCCGGCTCGCCCGTCTCCCCGGTCCGGGCCGCGGACTGTCCCTATGGGCCGC
 CCCTCCGGGACCCCCGCTCTCCGGGGGGTGGAGCCGGACTCAAAGCCGGGAGGCGCCCCCTTCTCTCC
 CGGCGCCCTACTCAGCAGCCCGAGCTGGGGGGTCCGGAACCTGAAGGCCGGACGGGTGGCGGAGTCC
 CGGGCTCGTCTCCCGCATCCTGGCACCGGTAGCCGAAGGCTCAAGGTGGCGCTCCTCCACCTGCTCC
 CAAGCCTTTCAAGACCGTGACCACTAGTGGAGCCAAAGCCGGCGGGGCAAGGGCGCAGGCAGCCGCTG
 TCATGGCCGAAAGCGAGGGCAAACCCAGGGTCAAGGGTCAAAGAGCACCGCCGGGACTGGAGCTTCTG
 CCGCTGCGGCCGGCGGGGAGGGAGCGCTGCAGTCACGACCTGTGGTGGGGTGGGGCTGGGCTGGAAC
 CAGAGGGAAGTTGTCCCTCGGAAAGGCAAGAGTAAGACCTTGGACAATAGTGACTTACACCCAGGACCC
 AGTGCCGGCTCTCTCCGCTCACCGTGCCAGCAATCCCAGTTCAGCCACTTCTGTCACTGCCACCTCCA
 CGCAGCCCTCGGGCTGCACCCCTATCACTCTGGAGCCACCAGCTCCAGGGCTGAAAAGGGGCGGGGA
 GGGCGGCCGAGCGTCCACTCGTGACCGCAAGATGCTCAAGTTTATCAGCGGTATCTTACCAAGAGCACA
 GGAGGGCTCCTGGTCCAGGGCCCTTCCCGGACCCCAAGGCTTGTCTTCCAGCAGCGGGTCCAGGGAGC
 TGCTGGGAGCAGAACTACGCACCTCCCCTAAGGCTGTGGTTAATAGCCAGGAATGGACTTTGAGCCGATC
 AATTCCCGAACTGCGCTGGGTGTCTGGGTGATGTCAGGAGTGGGAAGTCGTCCTCATCCATAGATTC
 CTCACGGTTTCATACCAGGTGCTGGAGAAGATTGAGAGTGAGCAGTACAAGAAGGAGATGCTAGTGGATG
 GCAGACCCATCTGGTGTGATCCGGGAGGAAGCAGGGGCACCCGATGCCAAGTTCTCAGGCTGGGCAGA
 TGCTGTGATCTTCTGCTTTCAGCCTGGAGGATGAGAGCAGCTTCCAGGCTGTGAGCCGCTCCATGGCAG
 CTGAGCTCCCTCCGGGGGAGGGGCGAGGAGGTCTGGCCCTGGCTCTGGTTGGGACCAAGACAGGATCA



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GTGCATCATCTCCTCGAGTGGTGGGTGATGCTCGAGCCAGGGCTCTGTGCACGGACATGAAGCGCTGTAG
 CTACTACGAGACCTGCGCAACCTATGGGCTCAATGTGGACCGGGTCTTCCAGGAGGTGGCCAGAAGGTG
 GTGACCTTGCGCAAAACAACAACCTCTGGCTGCTTGCAAATCCCTGCCTAGCTCGCCAAGCCATTGAG
 CTGCATCTACTCTGTAGCTGGGAGGCTAGTAACGGGGGCCACACTAGCGACTACTTCTTCCCTCCC
 ATCCTCACCAACGTTGGACACCGGGAGCTCCGAGCTGAGGCAGCTGCGGTGGCTGGGTTGAGTACCCCA
 GGGTCCTTACACAGAGCAGCCAAGCGGGGAGACCAACAGGGAGTGGCGAGCCATCCCCATCAAACAGAGCTTCT
 GCTAAAACGAAGTGGCAATTCTTGAACAAAGAATGGAAGAAGAAATATGTGACCTTGCCAGCAATGGC
 TTTCTACTCTACCACCCAGCATTAACTGACTACATCCACAGTACACATGGCAAAGAGATGGACTTGTAC
 GAACAACGGTCAAAGTCCCAGGCAAGCGGCCCAAGGGCTATCTCTGCTTTCGGCCCTCAGCCAGCAT
 CAACGGGTTGGTCAAGGATATGAGCACCGTCCAGATGGGTGAAGGCCCTGAAGCCTCTACTCCCATGCCA
 AGCCCCAGCCCTAGCCCCAGTTCCTGCAGCTTCCAACAGACCAGACATCCAAGCACCTCTGAAGCCAG
 ACCGGAATTTGGCCCGTGCCTTAGCACCGACTGTACCCATCTGGAGATCTGAGTCCCCTGAGTCCGGGA
 ACCCCACCTTCGCCATGGTGAAGAAGCAGAGGAGGAAGAACTGTCCACGCCTCTAAGACTGAAGGC
 TCGGCTGTGAAGCTGAAGAGGAAAACCTTGTGATTCCTGATCGTGTCCAGCACTGGTCCAGACGTGGCACT
 TTGAGGCAGCCAGCTTTGAGGAGCGGGATGCTTGGGTTACAGGCCATTGAGAGTCAGATCCTGGCCAGTCT
 GCAGTGTGTGAGAGCAGCAAGGTCAAGCTGCGCACTGACAGCCAAGCGAAGCTGTGGCCATCCAGGCG
 ATCCGCAACGCAAAGGAAAACCTCGACCTGTGTGGACTGTGGAGCTCCCAACCCACGTGGGCCAGTTTGA
 ATCTGGGCGCACTCATCTGCATCGAGTGTCTGGCATCCACCGAACCTGGGCACACACCTGTCCCAGT
 GCGTTCCTACTGGATTTGGATGACTGGCCGCGGGAGCTGACCCTGGTGTGACGGCCATTGGCAACGACACA
 GCCAACCCGCGTGGGAGAGCGACACTCGAGCCGTGCCAAGCCTACACGGGACTCTTCGCGGGAGGAGC
 GTGAGTCGTGGATTCGCGCCAAGTATGAGCAGCTGCTGTTCTTGGCGCCTCTGGGCACCAGGAGGAGCC
 GCTGGCCGCAACTGTGGCCGCTGTGGAGCCAGGACGTGGCCGCGTCTGTGCTTCTGGCCAC
 GCGCGACATGGGCGCTCGACACCAGCTGGAGGACCCGAGCTCCGCTCGCCGCTGCACTTGGCGGCCG
 AGCTCGCCACGTTGTCATTACACAGCTGCTGTTGTTGATGGCGCAGACGTGGCGGCCCGCATGCGCA
 AGGCCGCACGGCACTGTTCTATGCCCGCCAGGCTGGCAGCCAGCTGTGTGACAGACATCCTTCTCCAGCAC
 GGCTGCCCGGGAGAGGGCGGCAGCACGGCCACCACGCCAGCGCGCCACCACCCCCAGCATTACCGCCA
 CGCCAGCCCGAGGCGCCGAGCAGTGTGCCAGCTTGGGCGCGTGGACACCACGATCGCGCTGGTATA
 G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001301014
- Insert Size:** 3501 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_001301014.1](#), [NP_001287943.1](#)

RefSeq Size: 5585 bp

RefSeq ORF: 3501 bp

Locus ID: 216439

UniProt ID: [Q3UHD9](#)

Cytogenetics: 10 D3

Gene Summary: The protein encoded by this gene is a member of the centaurin GTPase family. This gene product regulates the activity of multiple kinases, including PI3K. Reduced expression of this gene results in multiple defects, including neural deficiencies, while increased expression of this gene has been observed in some tumors. Alternative splicing results in multiple protein isoforms. [provided by RefSeq, Jul 2014]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.