

## Product datasheet for **MC221335**

### Akap5 (NM\_001101471) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Akap5 (NM_001101471) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Akap5
Synonyms:	3526401B18Rik; AKAP-5; AKAP 150; AKAP150; BB098886; Gm258; P150
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221335 representing NM\_001101471  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGACCAGCGTTTCTGAGATTCAGGTAGAGACGAAGGACGAGAAGGGACCAGTAGCAGCCAGTCTCTC  
 AGAAAGAGAGGCAGGAGAGAAAAACAGCCACACTCTGCTTCAAGAGAAGGAAGAAAGCGAACCAAGACAAA  
 ACCCAAAGCCGGTTCCAGGACTGCTGAGGAGACAAAGAAACATACCCCCGAAGCTGGGGGCTCTGGTCAA  
 CGGCAACCAGCGGGTGCCTGGGCCTCCATCAAAGGCCTTGTGACACACAGGAAAAGGTCCGAGCCTGCAA  
 AGAAGCAGAAGCCGCTGAGGCAGAGGTGCAGCCCAGGATGGGGCTCTTCTAAGAAAAAGGCAAAATC  
 CAGACTTAAGTTTCTTGCCTAAGATTCTCAAGAGGGGCAAGAGAAGTCGTCATTCCAACTCACAGAA  
 GATTACAGGCTACGTCAGAGTCCAGGGAGAGGCAGACGATTTGGAGATAAAAGCCCAGACCCAGCCAGATG  
 ACCAGGCAATCCAGGCTGGGTCTACCCAGGGCCTACAGGAAGGTGTGTTGGTGGAGATGGTAAGAAGAG  
 CCAAGAATCACACATAAGCAACAGCGTCACTCGGGAGAGAATGTGATCGCCATAGAAGTGAATTAGAA  
 AACAAATCTTCTGCTATCCAGATGGGAACTCCTGAGCTGGAAAAGGAGACTAAGGTGATCACGAAAAGC  
 CAAGTGTGCAGACGCAGCGAGCAAGTCTACTTGAGAGTTCAGCAGCAGGCAGCCCTCGGTGAGTACTTC  
 TGCTGCTCCTCCATCACCAGCAACCACACATCAACATAGTCTGGAAGAACCAGTAATGGCATCCGGGAA  
 AGTGCCCCAAGTGGGAAAGATGACAGGAGAAAGACTGCTGCTGAAGAAAAGAAATCAGGAGAGACTGCAC  
 TGGGCCAGGCAGAGGAAGCTGCAGTTGGCCAGGCAGACAAAAGGGCACTAAGCCAGGCCGGAGAAGCTAC  
 AGCGGGCCACCCAGAGGAAGCTACTGTGATCCAGGCAGAGAGTTCAGGCAAAGGAAGGAACTGAGCCAG  
 GCAGAGGAAACTACAGTGGCCAGGCAAGGAACTGTATTGAGTCAGGCAAAGGAAGGTGAAGTGAAGTGA  
 AGGCAAGAAAAGCTACAGTTGGCCAGGCAGAGGAAGCTACAATTGACCACACAGAGAAAGTACAGTGGG  
 TCAGGCAGAGGAAACCACAGTGGGTGAGGCAGAAAGAAAGCTACAGTTGGTTCAGGCAGGGGAAGCTATATTG  
 AGCCAAGCAAAGGAAGCTACAGTTGTTGGTTCAGGCAGAGGAAGCTACAGTTGATCGGGCAGAGGAAGCTA  
 CTGTTGGTTCAGGCAGAGGAAGCTACAGTTGGCCACACAGAGAAAGTACAGTGGATCAGGCAGAGGAAGC  
 CACGGTGGGTTCAGGCAGAGGAAGCTACTGTTGGTTCAGGCAGAGGAAGCTACAGTTGATTGGGCAGAAAA  
 CCCACAGTTGGTTCAGGCAGAGGAAGCCACAGTGGGTTCAGGCAGAGGAAGCTACAGTTGGCCACACAGAGA  
 AAGTCACAGTGGATCAGGCAGAGGAAGCAACAGTGGGTTCAGGCAGAGGAAGCTACAGTTGGCCACACAGA  
 GAAAGTCACAGTGGATCATGCAGAGGAAGCCACAGTGGGTTCAGGCAGAGGAAGCTACAGTTGGACAGGC  
 CAGAGAAAGTACAGTGGATCATGCAGAGGAAGCCACAGTGGGTTCAGGCAGAGGAAGCTACAGTTGGACA  
 GGCAGAGAAAGTACAGTGGATCAGGCAGAGGAAGCCACAGTGGATCAGGCTGAGGAAGCTATATCGAGC  
 CATGCACCAGATCTGAAAGAAAATGGAATTGATACAGAGAAACCGAGATCAGAAGAAAGCAAACGAATGG  
 AGCCAATTGCTATTATCATTACTGACACTGAAATCAGTGAATTTGATGTTAAGAAGTCTAAAAATGTTCC  
 TAAGCAATTCCTAATTTCAATGGAAAACGAGCAAGTGGGGTTTTTGCTAATGATAGTGATTTTCGAGGGG  
 AGAACTTCAGAACAGTATGAAACACTCTTAATAGAAACAGCATCTTCTCTCGTCAAGAATGCTATCGAGT  
 TGCTGTAGAACAGCTGGTTAATGAAATGGTTTCCGAGGATAATCAAATAAATACGCTGTTCCAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001101471  
**Insert Size:** 2238 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_001101471.1](#), [NP\\_001094941.1](#)

**RefSeq Size:** 6685 bp

**RefSeq ORF:** 2238 bp

**Locus ID:** 238276

**UniProt ID:** [D3YVF0](#)

**Cytogenetics:** 12 C3

**Gene Summary:** May anchor the PKA kinase to cytoskeletal and/or organelle-associated proteins, targeting the signal carried by cAMP to specific intracellular effectors.[UniProtKB/Swiss-Prot Function]