

Product datasheet for **MR222726**

Akap5 (NM_001101471) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akap5 (NM_001101471) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR222726 representing NM_001101471, **codon optimized**.
Due to the complexity of NM_001101471, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGAAACTAGCGTCAGTGAAATCCAGGTGGAGACGAAAGACGAGAAGGGCCCCGTTGCCGCTCCCCAC
 AGAAGGAGAGGCAGGAGCGGAAGACCGCAACGCTTTGTTTTAAGCGCAGGAAGAAAGCCAACAAAATAA
 ACCTAAAGCCGGTCCAGAACCAGGAGGAGACAAAGAAGCATACCCCTGAGGCTGGCGGCAGCGCCAG
 AGGCAGCTGCCGGGCTGGGCTTCAATAAAGGGCCTCGTGACCCACCGAAGAGGAGCGAGCCAGCCA
 AGAAACAGAAGCCTCCAGAGGCTGAGGTCCAGCCAGAGGACGGGGCTTTGCCTAAAAAAGGCCAAGTC
 TAGGCTGAAGTCCCGTGCCTGAGGTTTTCCCGCGGCGCTAAGAGATCTAGGCACTCAAAGTTGACCGAA
 GATTCCGGATACGTGCGCGTGCAGGGGAGGCCGATGATTTGGAGATTAAGCTCAGACTCAGCCGACG
 ACCAAGCCATCCAGGCTGGTTCAACACAGGGACTCCAGGAAGGCGTTCTGGTGCAGGATGGAAAAAGAG
 CCAGGAGAGTCATATCAGCAACTCCGTGACAAGCGGCGAGAACGTCATTGCTATTGAACTGGAAGTTGAG
 AATAAGTCATCAGCCATCCAGATGGGAACCCCGAGCTGGAGAAAGAGACTAAGTTATTACTGAAAAGC
 CATCTGTGCAGACACAGCGGGCTAGCCTCCTCGAGAGCTCTGCGGCCGGAAGTCCCGATCTGTGACTTC
 TGCCGCTCCACCTAGCCAGCAACTACCCAGCACTACTGGAGGAGCCCTCCAATGGCATAACGGAA
 TCTGCCCCATCAGGCAAAGATGACCGGAGGAAAACAGCTGCTGAGGAGAAGAAATCAGGCGAGACAGCCT
 TGGGTCAAGCAGAGGAAGCCGCTGTGGCCAGGCTGATAAAGAGCACTGAGCCAGGCTGGAGAAGCGAC
 AGCCGGCCACCCAGAGGAGGCCACCGTCAATCAGGCCGAATCACAGGCCAAGGAGGAAAGTTGTCCAG
 GCCGAAGAGACAACAGTAGCACAAGCAAGGAGACTGTCTGTCCAGGCCAAGGAGGTTGAGCTCTCAC
 AGGCCAAGAAGGCGACAGTAGGTCAGGCCGAGGAGGCCACCATTGACCACACTGAGAAAGTCACTGTAGA
 CCAGGCTGAAGAGACAACAGTCGGACAAGCAGAGGAGGCGACTGTGGTCAAGCCGCGGAAGCCATTCTG
 TCACAAGCCAAGGAAGCAACCGTAGTTGGCCAGGCCGAGGAAGCTACCGTGGACAGGCCAGAGGAAGCTA
 CCGTGGCCAGGCAGAGGAGGCCACCGTGGGCCATACAGAAAAGTTACTGTGGATCAGGCCGAGGAAGC
 CACTGTGGCCAGGCCGAGGAGGCGACTTAGGCCAGGCCGAGGAGGCCACAGTTGACTGGCCGAGAAG
 CCAACAGTCGGGCAAGCCGAGGAAGCCACTGTTGGACAAGCAGAAGAGGCCACTGTGGCCATACTGAAA
 AGGTTACAGTGGACCAGGCCGAGGAGGCCACCGTGGGACAGGCTGAGGAAGCTACTGTTGGGCATACCGA
 GAAGGTCACAGTGGATCACGCAGAAGAGGCTACGGTTGGCCAGGCCGAGGAGGCAACCGTGGGCCAGG
 GAGAAGGTCACAGTGGATCATGCCGAGGAAGCAACAGTGGGCCAGGCCGAGGAAGCAACCGTGGGCCAGG
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 AGCCGAAAAGGTAACAGTCGATCAGGCCGAGGAGGCCACCGTCGATCAAGCCGAGGAGGCTATCTTAGC
 CATGCCCCGATCTGAAGGAGAACGGCATTGATACAGAGAAGCCGAGATCCGAGGAGTCTAAACGGATGG
 AACCCATTGCAATAATCATAACCGATACAGAGATCTCCGAGTTCGACGTGAAGAAGAGTAAGAATGTACC
 AAAGCAGTTCCTGATAAGCATGGAGAATGAGCAGGTCGGCGTGTGGCCAAATGACTCAGATTTTGAAGGA
 AGGACGAGCGAACAGTACGAGACTCTGCTCATAGAAACTGCCAGTAGTCTCGTTAAGAATGCTATCGAGT
 TGCTGTGGAGCAACTTGTTAACGAAATGGTGTGAGAAGATAATCAGATCAATACTCTGTTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222726 representing NM_001101471
 Red=Cloning site Green=Tags(s)

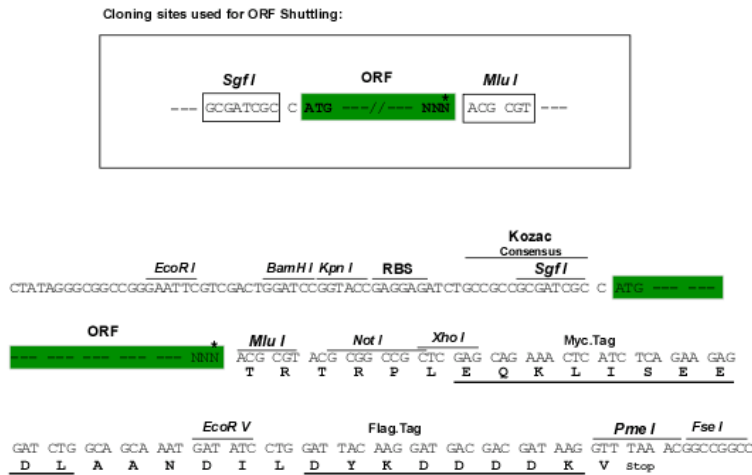
METSVSEIQVETKDEKGPVAASPQKERQERKTATLCKFRRKKANKTKPKAGSRTAEETKKHTPEAGGSGQ
 RQPAGAWASIKGLVTHRRRSEPAKKQKPPAEVQPEDGALPKKKAKSRLKFPCLRFSGAKRSRHSKLTE
 DSGYVRVQGEADDLEIKAQTQDDQAIQAGSTQGLQEGVLVRDGGKKSQESHISNSVTSGENVIAIELELE
 NKSSAIQMGTPLEKETKVITEKPSVQTRASLLESSAAGSPRSVTSAPPSPATTHQSLEEPSNGIRE
 SAPSGKDDRRKTAEEKKSGETALGQAEEAAVGQADKRALSQAGEATAGHPPEEATVIQAESQAKEGKLSQ
 AEETTVAQAKETVLSQAKEGELSQAKKATVGQAEAEATIDHTEKVTVDQAEETTQVQAEAEATVGQAGEAIL
 SQAKEATVVGQAEAEATVDRAEEATVGQAEAEATVGHTKVTVDQAEAEATVGQAEAEATVDWAEK
 PTVGQAEAEATVGQAEAEATVGHTKVTVDQAEAEATVGQAEAEATVGHTKVTVDHAEAEATVGQAEAEATVQQA
 EKVTVDHAEAEATVGQAEAEATVGQAEKVTVDHAEAEATVGQAEAEATVGQAEKVTVDQAEAEATVQQA
 HAPDLKENGIDTEKPRSEESKRMEPIAIIITDTEISEFDVKKSKNVPKQFLISMENEQVGVFANDSDFEG
 RTSEQYETLLIETASSLVKNAIELSVEQLVNMVSEDNQINTLFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

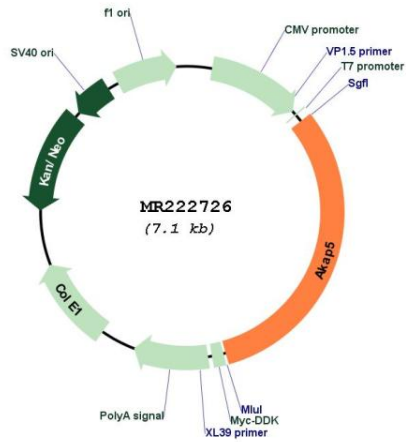
Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN:	NM_001101471
ORF Size:	2235 bp
OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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:	NM_001101471.1 , NP_001094941.1
RefSeq Size:	6685 bp
RefSeq ORF:	2238 bp
Locus ID:	238276
UniProt ID:	D3YVF0
Cytogenetics:	12 C3
MW:	79.4 kDa
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]

Product images:



Circular map for MR222726