

## Product datasheet for **MG210725**

### Akap2 (BC003735) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Akap2 (BC003735) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Akap2
Synonyms:	AKAP-KL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG210725 representing BC003735  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGAATTTGGGTGTCCGTGGCAGAATGTAAAAGTGTACCTGGAGTCACCTCTACCCCCATTCCAAGG  
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CGATGTCGCCAGAGAGATCCAGTACCTAGATGAAGTGTGGAGGCCAACTGCTGTGATTCCTCTGCGGAT  
GGAACCTACAACGGAATCTCTCCCCAGAGCCTGGTGCAGCCATACTGGTAAGCAGCTTAGGTTCCGCTG  
CCCCTCAGTCACCGAGGCAGAACCCACTGAGAAAGCATCCGGTAGGCAGGTGCCCTCACATTGAGCT  
CAGTAGAAGCCCCCTCCGACAGAATGGCTGAAGGAGAAAGGCCAATGGACTCCACTGACCAGCCCCAA  
GACCTGCTGGGGAACAGCCTGCAGGCACCTGCCAGCCCCAGTTCTCTACCAGCTCCACTGCTCCTCCC  
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AGAAGAGATCCGGGCAGCCAGGAAAGGGAGGAGGAGCTAAAGCGGCAGAGACAAGTGAAGCAAGCACC  
CCAAGCCCCAGGCCAAGAACGCCCATCGCTGCCTTCTAGGACCACCTGCTACAAGACTGCTCCAGGTC  
CTGGAGGCCACACGGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210725 representing BC003735  
 Red=Cloning site Green=Tags(s)

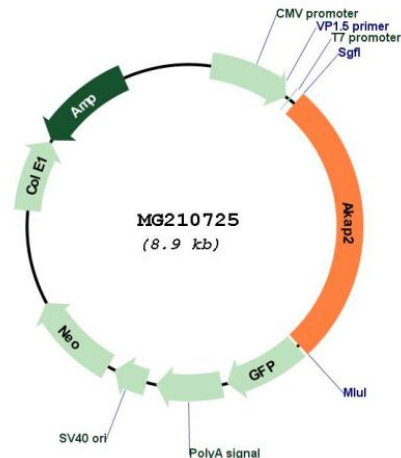
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MEIGVSAECKSVPGVTSTPHSKDHSSPFYSPSHNGLLADHHESLDNDVAREIQYLDEVLEANCCDSSAD
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DLLGNSLQAPASPSSTSSHCSRIDGEFTLTTLKKEAKFELRAFHEDKKPSKLFEEDEKEQFCVRKVR
PSEEMIELEKERRELIRSQAVKKNPGIAAKWVNPPEKTIEEQLEDEEHLESHRKYKERKEKRAQQEQLQL
QQQQQQQLQQQLQQQLQQQLQQQLQQQLQQQLQQQLQQQLSTSQPCTAPAAHKHLDGIEHTKEDVVTEQ
IDFSAARKQFQLMENSRTLAKGQSTPRLF SIKPYKPLGSIHSDKPPTILRPATVGGTLEDGGTQAAKE
QKAPCVSESQSAGAGPANAATQGKEGPYSEPSKRGPLSKLWAEDGEFTSARAVLTVVKDEDHGILDQFSR
SVNVSLTQEELDSGLDEL SVRSQDTTVLETL SNDF SMDNISDSGASNETPSALQENSLADFSLPQTPQTD
NPSEGREGVSKSFSDHGFYSPSSTLGDSPSVDDPLEYQAGLLVQNAIQQAIAEQVDKAEHTSKERSEQQ
EPEAGSQTPGSEKPOGMFAPPQVSSPVQEKRDILPKNLPAEDRALREKGPSQPPTAAQPSGPNMEETRP
EGGYFSKYSEAAELRSTASLLATQESDVMVGFKLRSRKQRTL SMIEEEIRAAQEREELKRQRQVRQST
PSPRAKNAPSLPSRTTCYKTAPGPGGHTG
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Plasmid Map:**


**ACCN:** BC003735

**ORF Size:** 2399 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.

**RefSeq:** [BC003735](#), [AAH03735](#)

**RefSeq Size:** 2807 bp

**RefSeq ORF:** 2399 bp

**Locus ID:** 11641

**Cytogenetics:** 4 B3