

Product datasheet for **MG205740**

Akap10 (BC054105) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akap10 (BC054105) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Akap10
Synonyms:	1500031L16Rik; B130049N18Rik; D-AKAP-2; D-AKAP2; PRKA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205740 representing BC054105 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAAGTATAGAACAAGATGCAGTGAATACTTTACCAAATATATATCTCCAGATGCTGCTAAGCCAA
TACCAATTACAGAAGCCATGAGAAACGACATCATCGCAAAGATTTGTGGAGAAGATGGACAGGTGGATCC
CAACTGTTTCGTTCTGGCACAGGCTGTAGTCTTTAGTGAATGGAGCAAGAGCACTTTAGTGAGTTTCTG
CGAAGTCACCATTCTGTAATACCAGATTGAAGTGTGACCAGTGGGACTGTTTACCTGGCTGATATCC
TCTTCTGTGAGTCAGCCCTCTTTATTTTTCTGAGTACATGGAAAAGAAGATGCAGTGAATGCTTACA
ATTCTGGTTAGCAGCGGATAATTTCCAGTCTCAGCTTGCTGCCAAAAGGGCCAGTATGATGGACAGGAG
GCCAGAATGATGCCATGATTTTATATGACAACTACTTTCCCTCCAAGCCACACACCCCTTGGATTTG
ATGATGTTGTACGATTAGAAATTGAATCTAATATCTGCAGGGAAGGTGGACCACTTCTAATTGTTTCAC
AACTCCATTACGTCAGGCCTGGACAACCATGGAGAAGGTCTTTTTGCCTGGTTTTCTGTCCAGCAATCTT
TATTACAAATATTTGAATGATCTCATCCATTAGTTTCGAGGAGATGAATTTCTGGAGGGAATGTTTCCC
TGGCTGCTCAGGCTCTGTCTGCCTTCTGAGGAGTCTCACTCAGGTGGTCCGATGGCTCCACTGCTCA
GTCTAGTGTGAAAAAGCCAGTATTAATTTCTGAAAAATTTTGATGAAGCAATAATTGTGGATGCTGCA
AGTCTGGACCCAGAATCTTTATATCAACGACATATGCAGGGAAGATGTCCTTTGGGAGAGTTAGTGATT
TGGGGCAGTTTATCCGAGAGTCTGAGCCTGAACCTGATGTGAAGAAATCAAAGGATTTATGTTCTCACA
AGCTATGAAGAAGTGGGTGCAAGGAAATCTGACGAGGCCAAGAAGAGCTAGCTTGAAGATTGAAAAA
ATGATAGTGAGTGATGTTATGCAGCCGGCACACCATGATCAACCACTAGAGAAGTCTACAAAGCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205740 representing BC054105
 Red=Cloning site Green=Tags(s)

MKSIEQDAVNTFTKYISPDAAKPIPI TEAMRNDIIAKICGEDGQVDPNCFVLAQAVVFSAMEQEHFSEFL
 RSHHFCKYQIEVL TSGTVYLADILFCESALFYFSEYMEKEDAVNVLQFWLAADNFQSQLAAKKGQYDGQE
 AQNDAMILYDKYFSLQATHPLGFDDVVRLEIESNICREGGPLPNCFTTPLRQAWTMEKVFLPGFLSSNL
 YYKYLNDLIH SVRGDEF LGGNVSLAAHGSVCLPEESHSGGSDGSTAQSSVKKASIKILKNFDEAIIVDAA
 SLDPESLYQRTYAGKMSFGRVSDLGQFIRESEPEPDVKKSKGFMFSQAMKKWVQGN TDEAQEELAWKIAK
 MIVSDVMQPAHHDQPLEKSTKL

TRTRPLE - GFP Tag - V

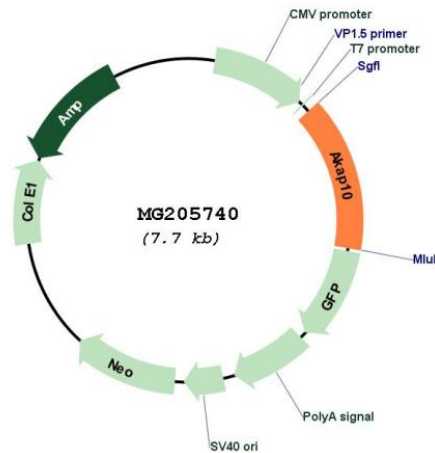
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC054105

ORF Size:	1116 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:	<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:	BC054105.1
RefSeq Size:	2836 bp
RefSeq ORF:	1118 bp
Locus ID:	56697
Cytogenetics:	11 B2
Gene Summary:	This gene encodes a member of A-kinase anchoring proteins (AKAPs), a family of functionally related proteins that target protein kinase A to discrete locations within the cell. The encoded protein is localized to mitochondria and interacts with both the type I and type II regulatory subunits of PKA. It has been reported that this protein is important for maintaining heart rate and myocardial contractility through its targeting of protein kinase A. In mouse, defects of this gene lead to cardiac arrhythmias and premature death. In humans, polymorphisms in this gene may be associated with increased risk of arrhythmias and sudden cardiac death. [provided by RefSeq, May 2013]