

## Product datasheet for **MG224507**

### Akap7 (NM\_018747) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Akap7 (NM_018747) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Akap7
Synonyms:	6430401D08; AI662165; AKAP15; Akap18; BB170514
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224507 representing NM_018747 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGTTTGCTGCTGTAGATATCAAGATGACTGTGGAAGCCCTGATGTACCTCAAGCAAACCCAAAGA  
GAAGCAAAGAAGAAGAAGATAGAGGCGACAAGAATGATCATGTGAAGAAGAGGAAAAAGCCAAAA  
AGATTATCAGCCCACTATTTCTGTCCATTCCGATCACCAACAAAAAGATTACAACCGGAATTAAGTC  
TTGCAAATTCGATACTACAGCAGGATAAGCGACTGACCAAAGCCATGGTGGCGACGGCTCCTTTCATA  
TTACCTTGCTAGTGATGCAGTTATTAACGAAGATGAAGTAAATATCGGTACCGATGCACCTTTTGAATT  
GAAGCCATTCGTTGAGGAGATCCTTGAAGGAAACACTTGGCTTTGCCCTTCCAAGGGATTGGCACTTTC  
CAAGGTCAGGTTGGCTTTGTGAAGCTGGCAGATGGAGACCATGTTAGCGCACTCCTGGAGATAGCAGAGA  
CTGCGAAAAGAACATTCGGGAAAAAGGCATCCTAGCTGGAGAAAAGCAGAACTTTTAAGCCCCACCTGAC  
CTTTATGAAGCTGTCAAAGCACCGATGCTCAGGAAGAAGGGAGTGAGAAAAATCGAGCCTGGATTGTAT  
GAACAATTTATCGACCACAGATTTGGAGAAGAACTATTGTACCAGATAGATCTCTGCTCCATGCTGAAGA  
AAAAACAGAGCAATGGTTATTACCACTGTGAGTCTTCCATCGTGATCGGTGAGAAGGACCGAAGGGAGCC  
TGAGGATGCTGAAGTGGTCAGGCTCAGTAAGAGGCTGGTGGAGAACGCCGTGCTCAAGGCTGTCCAGCAG  
TACCTAGAAGAGACGCAGAACAAAAAGCAGCCAGGGGAGGGAACTCCACCAAAGCTGAGGAGGGAGATC  
GGAATGGTGATGGCAGTGATAACAACCGGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**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\\_018747.5](#)

**RefSeq Size:** 3140 bp

**RefSeq ORF:** 945 bp

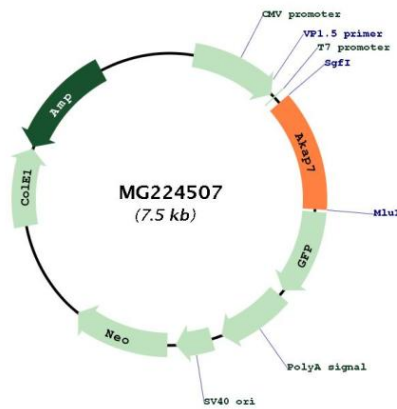
**Locus ID:** 432442

**UniProt ID:** [Q7TN79](#)

**Cytogenetics:** 10 A4

**Gene Summary:** Targets the cAMP-dependent protein kinase (PKA) to the plasma membrane, and permits functional coupling to the L-type calcium channel. The membrane-associated form reduces epithelial sodium channel (ENaC) activity, whereas the free cytoplasmic form may negatively regulate ENaC channel feedback inhibition by intracellular sodium (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG224507