

Product datasheet for **MG215888**

Akap3 (NM_009650) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Akap3 (NM_009650) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Akap3 |
| Synonyms: | Prka3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG215888 representing NM_009650
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGATAGGGTTGACTGGTTACAAAGTCAAAGTGGCGTTTGCAAAGTTGGTGTCTATTCACCTGGAG
 ACAACCAACACCAAGACTGGAAAATGGACACATCAACAGATCCTGTCCGAGTGCTCAGCTGGCTCCGCAA
 AGACCTGGAGAAAAGTACAGCGGCTTCCAGGACTCGAGGTTCAAGCCTGGAGAGTCATCGTTTGTGGAG
 GAAGTGGCTTACCAGTGGACCAACGAAAAGTTTCTGTGTTGATTATTACAATACCACCAACAAGGGCA
 GTCCAGGAAGATTGCATTTTGGATGTCTCACAAGGAGAACCCTCCAGGGCCTCATTTCCCATGTTGG
 TAATGGGGTTCCATAGACGAAGTTTCTTCTATGCCAACCGCTCACAAACCTAGTGATCGCCATGGCC
 CGAAAGGAGATCAATGAGAAGATCCACGGCGTGAAAACAATGTGTCCATCAGTCATTGTATATGGGGG
 ATGAGCCACACCCACAAAAGCTTGTAGTACAGTGGCCTCTGAGCTCGTGAACGAGACAGTCACCGCATG
 TTCCAAGAACATTTCCAGTGACAAAGCTCCCGGCTCTGGAGACAGGGCCTCGGGGTGTCACAGGCCCT
 GGTCTAAGATACAGGACTCTGAAGATCAAGGAGAGTACAAAGGAAGGCAAGTGTCCAGACGACAAGC
 CCGGCACTAAGAAGTCTTTCTTCTATAAGGAAGTGTGGAGTCCCGGAATGCAGGAGATGCCAAGGAGGG
 CGGGAGGTCTTACCAGGAGATCAAAAAGTGTTCAGGACAGCCCGACAACAGGCCTGATGACTTTTCA
 AACTCTATCAGTCAAGGGATCATGACCTACGCCAACAGCGTGGTGTCTGACATGATGGTCTCCATCATGA
 AGACGCTGAAGATCCAGGTGAAGGACACAACCATCGCCACGATTTCTGCTGAAGAAGGTGCTGATGAAGCA
 CGCAAAGGAGGTTGTCTCCGACCTCATCGACTCCTTCAAGAAGCTCCACGGCGTCACGGGAAGCCTC
 ATGACTGACACAGACTTTGTCTCGGCCGTGAAACGAAGTTTTTTTTTCTCATGGAAGCCAAAAGGCCACAG
 GAGAGCCAGGGACAAGTCCGAGAGTTACTCCCTTATCTCCACGAAATCACGGGCTGGTGACCCAAAAGCTC
 TCAATTTGAACTTTGCGATGAAGTCAAGTCAAAGCTGAAAGAAAATTTGTTTTCTACATGCAAACCTAG
 AGAAAGAGAAGACGTGTGCCGAACTCTGGGTGAGCATATTATTAAGGAGGGACTGCACATGTGGCACA
 GAGTCAGCAAAAATCTCCTGGCTTGGAGCGTGCCGCAAACTGGGTAACGCTCCACAGGAGGTCTCCTTT
 GAGTGCCAGATCCTTGTGAGGCAAAACCCTCTCACCAACCTCAGCCACCAGAGAATTTTGCAAATTTTA
 TGTGTGACTCAGACTCCTGGCCAAGGACCTGATTGTATCCGCCCTGCTTCTGATTCAGTATCACCTGGC
 ACAGGGAGGAAAGATGGATGCTCAGAGCTTCTGGAAGCTGCTGCCAGCACCAATTTTCCACCAACAAG
 CCACCTCCTCCTTCTCCTGTAGTTCAGGATGAGTGCAAACCTAAGTCTCCTCCCAAGATATGTGACC
 AAGAACAACAGAAAAGAAAGATCTGATGAGTGCATCTTCAATTTTATCCGGAACCTACTCAGCGAGAC
 CATATTCAAGAGTAGCCGTAACCTGTGAATCCAATGTGCATGAGCAGAACTCAGGAAGAAGAGATACAC
 CCGTGTGAAAGGCCTAAGACTCCATGTGAAAGGCCTATTACCCCGCTGCCCCGAAATTTCTGTGAGGATG
 AGGAGGCCACTGGTGGTGCCTTATCTGGGCTAACCAAGATGGTTGCCAACAGCTAGACAACCTGTATGAA
 TGGGCAGATGGTGGAGCACCTGATGGACTCGGTGATGAAGTTATGCCTCATTATTGCCAAGTCTGTGAC
 TCTCCCTGTCCGAGCTGGGAGAGGAAAAGTGTGGGGATGCCAGCCGGCCAAATTTCTGCCTTCCCAGATA
 ACTTATATGAGTGCCTACCAGTCAAGGGCACAGGGACAGCTGAAGCCCTCCTGCAGAACGCTACCTCAC
 CATCCATAATGAACTGAGAGGTTTGTGAGGACAGCCCCGAGGGCTGTGAAATCCCAAGGTGATCGTC
 AGCAACCACAATCTGGCTGACACCGTTTCAAGAACAAGCAACTGCAAGCTGTCTTCAAGTGGTGGCTGCCT
 CAGAGCTCAATGTCCCTATTTTGTACTTTGCTGGTACGATGAAGGAATCCAGGAGAAGCTGCTTACGCT
 CTCAGCCACTGCCGTGGAGAAAGGCCGAGCGTCCGGGAGGTTCTGAGTCCGCTGCTGAGGTACGAGAAG
 GAGCGACAGCTGGATGAAGCAGTGGGAAATGTCACGCGGCTGCAGCTGCTGGACTGGCTGATGGCAAACC
 TG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG215888 representing NM_009650
 Red=Cloning site Green=Tags(s)

MADRVDWLQSQSGVCKVGVYSPGDNQHQDWKMDTSTDPVRVLSWLRKDLEKSTAGFQDSRFKPGESSFVE
 EVAYPVQQRKGFCDVYYNTTNKSGSPGRLHFEMSHKENPSQGLISHVGNNGS IDEVSFYANRLTNLVIAMA
 RKEINEKIHGAENKCVHQSLYMGDEPTPHKSLSTVASELVNETVTACSKNISDDKAPGSGDRASGSSQAP
 GLRYTSTLKIKESTKEGKCPDDKPGTKKSFYKVEFESRNAGDAKEGGRSLPGDQKLFRTSPDNRPDFFS
 NSISQGITMYANSVVSDMMVSIMKTLKIQVKDDTTIATILLKVKVLMKHAKEVVSDLIDFSFMKNLHGVTGSL
 MTDTDVFSAVKRFFSHGSQKATDIMDAMLGKLYNVMAKFKPENIRRARDKSESYSLISTKSRAGDPKL
 SNLNFAMKSESKLKENLFSTCKLEKEKCAETLGEHIIKEGLHMWHKSQQKSPGLERAACLGNAPQEVSF
 ECPDPCANPPHQPPENFANFMCDSDSWAKDLIVSALLLIQYHLAQGGKMDAQSFLEAAASTNFPNTK
 PPPSPVVQDECKLKSPHKICDQEQTTEKDLMSVIFNFIRNLLSETIFKSSRNCSNVHEQNTQEEIIEH
 PCERP KPCERPI TPPAPKFCDEEATGGAL SGLTKMVAQLDNCMNGQMV EHLMD SVMKLC LIIAKSCD
 SPLSELGEEKGDASRPNSAFPDNLYECLPVKGTGTAEALLQNAYLTIHNELRGLSGQPPEGCEIPKVIIV
 SNHNLADTVQNKQLQAVLQWVAASELNVPILYFAGDDEGIQEKLQLSATAVEKGRSVGEVLQSVLRYEK
 ERQLDEAVGNVTRLQLLDWLMANL

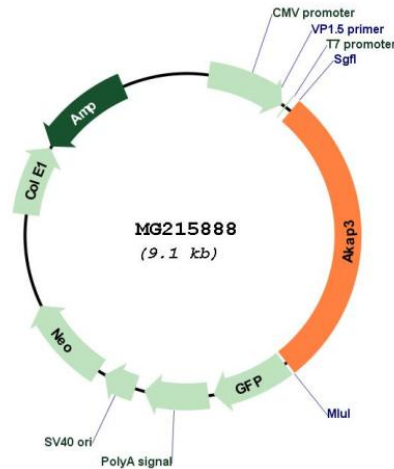
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_009650

ORF Size: 2592 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: [NM_009650.2](#), [NP_033780.2](#)

RefSeq Size: 3173 bp

RefSeq ORF: 2595 bp

Locus ID: 11642

UniProt ID: [O88987](#)

Cytogenetics: 6 F3

Gene Summary: May function as a regulator of both motility- and head-associated functions such as capacitation and the acrosome reaction.[UniProtKB/Swiss-Prot Function]