

Product datasheet for **MG214870**

Aknad1 (NM_177859) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Aknad1
Synonyms:	4921525H12Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >MG214870 representing NM_177859
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACGAAACCGACTTTTCAGAAGATATGACTTATAAACAACAGGAGGACCTGCCTTATGATGGGGACT
 TCTCCAGATGAAGATGTGCACTTCTTACAACCTTACCATAACAAATGACACCTCTCCTGTCTCAGCAGA
 AGTTGTTCTGGCAGGAGAAGACCCTCAGGAAGTGGCTTCTAACTGTGAGGTGCCCGAGGACACAGCTCTG
 CTGGCAACTTGGGATAAGATGACTGAACTTGTGCGCAATAGGCATGATAAAGATAAGCAATGCGCCCTGG
 CTTCTCCTGTTCCAGCTGATAAAGAAGATACCTCAAAGTCCCACGCTCAGATATTTTACTCCATCATCT
 CTCCGGAGAGCAATTCTCAGGGGTCCAGGTGCTGGCTATGAAACTCTCCAGAGACCTCGAATGCTGAC
 AGTCTTGAAGGCTCAGATACTTTATAAATATCATTTCATGTTATGCAAAAAAGTATTACCCCAAAGAAC
 AAATCCAGAATTCAGTGGCCAGCCAGTCCCAAAATGGTCAATAAATAGCAGCAAGCCCTGTTGCTC
 CCCTGGCACAGAAGAAGAAAACGCCTCTCCCTTAGAAGAAGCAGTGGCTGCTGGGAAGAGCACCCATCAG
 GAAGATCCAAGCTTCTAACCCAGGACTAAAGGTCCAGGTGATAAATAAAAAGCTGCCTGAGGCAGACAC
 CCCAGAGACAGTCCAGACAAAGCAAATTCAGGCGACTGGCTCAGATACAGCCAGGCTCAAGTGCACCTA
 CCAGTTTCCAGATTTTCTAAGGTTTCTCCAAAGGAAACTCTAGCAAACCACTTACCACAGCTAAC
 GAAGGGCGCCATTTCTCCGAGGTTGACGAATAAATCAACAGTGTGCAAGATAATTTAGGAACCACGCTG
 GGTCAAATCGTGTGAAAAACAACCCGAGCAGAAATGGAAATTTCTGAACTTCGCAACAAATACAGGT
 GCAGCTGCCACACACACCTGCCAAGAACCTCTCACAGGACTTGAACCTGAGAAATGTTGCTTGAATTTG
 ACACCAACACCTCAAAAAGATCCTTTCTCAAATCTTACATATTTCAAAGATCTCCATGGAAAACAGA
 TGTGCCAGAACTGAAAGAACAGACTGACCAACTGAAGAATAAGGTACAAGAATTTTCAAAGAATAAAA
 ACAGGACTCTTTCTGCCATTTGCAAGACATAAGACTGATGAACAAGGAACATGCTGGCAGTCTTCCAGGG
 CCCTGGGGCTCCCAGGAAGTGAAGTGAACAGAAAAATGGAGAAAAGGGGCCACAGAAGAACTAACTGTGG
 AGCTCAGTGAACCTGGCCCTGAAGATGAAACAGAAAAATGGAGAAAAGGGGCCACAGAAGAACTAACTGTGG
 GAAGTTTTCCAGTAGCATCCATGAAAAACACTGCCCAAGACTCGGCTCTCGGTACTGATCCAGGACCC
 GACTTTTGTCTGATCCTGGTACTGGGCTCCAGAGTAACAAATGTGAAGCCTACGGAAGCAAGACTCAGA
 ACTCCAGAGAGTCTGTGAGGAAGCCACCAAAAAGAAATTTATTATAGATATAAACTCCAGGACAAGA
 TGACTTAAATCATGGTGGAGGATATATCTTTGTCCAGCCTCACTTCTTATGAAAAATAAATCTCTGCA
 TCTTCTTGGTCAAAGCAAATGGATCTGGTCTGGAGAGTGAACCTCAGAACCCGTTCAAGATGAGCCCG
 ATCCTGCGGCAGGAAAATATCCAAGACTTATATGATCTCTACCTCAGACCTTGCAACACCTCACCCCA
 CCTCTGCTGCCTGGGAATTCCTAGAATCCAGTCTTATGTCCAGTGATAACATGGAAGAAATGGAATCT
 AAGATTTTAACTCGCCCTTGGAGCATGCCTTAAAGGACAGCAACCATATTGAAAAAAAACCCGACCAAA
 TGATTAGATCCATTGCAGAAGACCTGCCAAGGCACAAGGATGGAGACACCAGCTAAGATACTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG214870 representing NM_177859
 Red=Cloning site Green=Tags(s)

MDETD FSEDMTYKQEDLPYDGD F SQMKMCTSYNFTITNDTSPVSAEVLAGEDPQEVA SNCEVRQDTAL
 LATWDKMTELVGNRHKDKQCALASPV PADKEDTSKSHVSDILLHHL SGEQFFRGP GAGYETLPETSNA D
 SLEGS DTLINIISCYAKKYYPK EIQIPEFTGQPS PQNGSINSSK PCCSPGTEENASPLEEAVAAGKSTHQ
 EDPSFLTRTKGPGDKYK SCLRQTPQRQLPDKANS GDWLRYSQAQVHYQFPDFPKVSPKGKLS SKPLTTAN
 EGGHSPRLTNKSTVVQDNLGTTSGSNRVEKQPEQKWKFP EPSQIQVQPATHTCQEPLTGLEPEKCLNL
 TPTPQKDPF SNSYIFQKISHGKQMCQKLEQTDQLKNKVQEF SKRIKQDSFCHLQDIRLMNKEHAGSLPG
 PWGSRGSEVTGLPRGGPQEATSKELSELALMKQKMEKRGHRRRTNCGKFSSSIHEKTL PQDSALGTDPGP
 DFCPDPTGLQSNKCEAYGSKTQNSQRVCEEDPPKEFYRYNTPGQDDL NHGGYIFVQPHFLYENKISA
 SWSKAKWIWSWRVNSEPVQDEPDPAAGKYPKTYMISTDLATPSPHLCLGLIPRIQSLCPSDNMEEMES
 KILNSPLEHALRTATILKKN TDQMIRSI AEDLAKAQGWHRHL RYY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_177859

ORF Size: 2025 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.

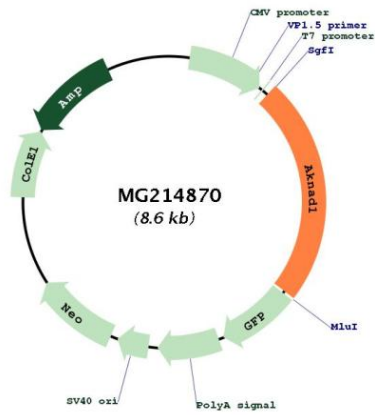
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_177859.3](#), [NP_808527.2](#)

RefSeq Size: 2603 bp

RefSeq ORF: 2028 bp
 Locus ID: 329738
 Cytogenetics: 3 F3

Product images:



Circular map for MG214870