

Product datasheet for **MG214917**

AU021092 (NM_001033220) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	AU021092
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG214917 representing NM_001033220
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGACTCGGGCTGCTTCTCCTCCTGCTGCTGGCCCTGCCACCACACTTCTCCTCAGTGTCATGGC
CAGACTGCACAGGGCACCATGGCAAACCTGATCCTGACTGCATTAGAAAAAGCCACCTTGTCTTGGA
GGACAGGCTGCCCAACAATCAACCTGGATGGTGTGGTGGGCTTCCAAGTGCCTGGAAGTCAACTCCGAGGA
GTTCCAGAAAAATGGGCTCACAAAGCCCTTCTGTCAGCCTCTCAGCATGCGCGCTGGACAGATGGCCAACA
CACTGTCTGCTCTCCTCAAAAATCCATCTTCTACCTCAAGCAGAGTGACCCACGTACCTAAGAGAGTT
CCAGCCAAGCATTACGCTGGGTTTTGGAAGTTGCCAATGACTGGACACGCACCAATGCCCTCCCTAGTC
TACCCCTGGCTGGAACCCCTGGACTCTTTCTCAGAGGAAAGCAGCGATGTGTGCCTGGTGAACACTACTAG
GAACAGGGACAGACAGCAGCCAGCCTTGCAGGCTCTCCAATTCTGCAGAACCCTTATGACCAAGGCCGG
CTGCTCAGGCTACAGCCTCTCCATCAGCTGCTCTTCTCCTGCGCCAGAATGCAAGGGTGCACGGAG
GGACTGTTCTCCAGAGCCAACACTACATGGACATCTTCTGTCCAATATGATGGAAGTGAACCACAGAG
CTGAGGCCGTTGGATACGCTTACCCACCCAAAGACCTTTCATGGAAAAATTATGTTCTGTGGTATGGC
TGGCTTCTCTGACTTCTACAAGCTGCGCTGGCTGGAGGCCATTCTCAGCTGGCAGAACCCCAAGTGGGA
TGCTTCGGGAGGCCTGACAAAAGGGTGAACCTTCTGAAGTCCACATCAGCAGGGCATTCTGAGAAGAG
TGGTGGCTTTCTCTACATCCTGGCAGAATACCACCCAGACAATGGAGATGCACATCCAGAATACTACCCA
AACCATGGAGATCCATACTCATCCTCACAGTCACCAGCAAGCAACTACCAAGATGGTGTGCCGGCCCTG
ACGTCCAGAGGACTGGCAGGCCCTTAGTGTCTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG214917 representing NM_001033220
 Red=Cloning site Green=Tags(s)

MARLGLLLLLLLALPPHFSSVSWPDTAQGTMANLILTALEKATLFLEDRLPTINLDGVVGFQVLEVLQRLG
 VQEKWAHKPLLQPLSMRAGQMANTLSALLQKSIFYLKQSDPTYLREFQPSIQPGFWKLPNDWTRTNASLV
 YPWLEPLDSFSESSDVLVQLLGTGTSSQPCRLSNFCRTLMTKAGCSGYLSHQLLFFLWARMQGCTE
 GLFLQSQHYMDIFCANMMELNHRAEAVGYAYPTQDLFMENIMFCGMAGFSDFYKLRWLEAILSWQNPQVG
 CFGRPDTKGEPSEVPHQQGILRRVRRREKLFADGCSCHNTATAVAALGGFLYLILAEYHPDNGDAHPEYYP
 NHGDPYSSSQSPASNYQDGAAGPDVQRTGRPLSVS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033220

ORF Size: 1155 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_001033220.3](#), [NP_001028392.2](#)

RefSeq Size: 1375 bp

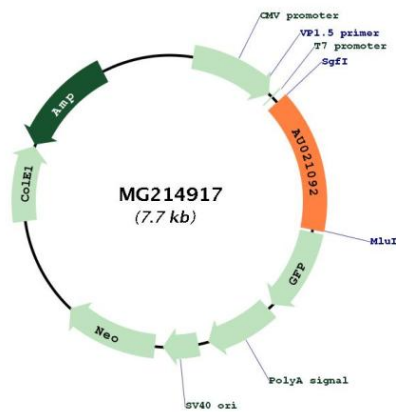
RefSeq ORF: 1158 bp

Locus ID: 239691

UniProt ID: [Q3UST5](#)

Cytogenetics: 16 A1

Product images:



Circular map for MG214917