

Product datasheet for **MG201282**

0610007C21Rik (BC049637) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: 0610007C21Rik (BC049637) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: 0610007C21Rik
Synonyms: Apr3, p18, HSPC013
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201282 representing BC049637
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGCACCCTGTGTCCGGGAGGCTAGATCTTCAGAACTGTTCCCTGAAGGATCCTGGTCCAACTTTTAC
 AGGCTTACTGCTATTATCATAGACCTTCAGGCAAATCCTCTCAAGGATGATTTGGCCAACACCTTCCG
 TGGGTTTACTCAGCTGCAGACTCTGATACTACCACAAGATGTTCCCTGTCCTGGAGGTAGTAATGCCTGG
 GACAATGTTACTCTTTCAAGGACAAGCAGATTTGCCAAGGGCAAAGGGACCTTTGCAATAGCACTGGAA
 GCCCAGAAATGTGTCCTGAGAACGGATCTGTGCATCTGACGGTCTGGTCTTTTGCAGTGCCTTTGTGC
 TGATGGTTTCCATGGATACAAGTATGAGGCAGGGCTCATTTCCTGCTTATGTTCTTTGGGATTCTG
 GGATCCACCACGCTAGCCATCTCCATTTACTTTGGGGAACCCAGCGCCGAAAGCCAAGGCTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201282 representing BC049637
 Red=Cloning site Green=Tags(s)

MHPVSGRLDLQNC SLKDPGPNFLQAYTAIIIDLQANPLKDDLANTFRGFTQLQTLILPQDVPCPGGSNAW
 DNVTSFKDKQICQGRDL CNSTGSPMCPENGSCASDGPGLLQVCADGFHGYKCMRQGSFSLMFFGIL
 GSTTLAISILLWGTQRRKAKAS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: BC049637

ORF Size: 486 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: [BC049637.1](#)

RefSeq Size: 896 bp

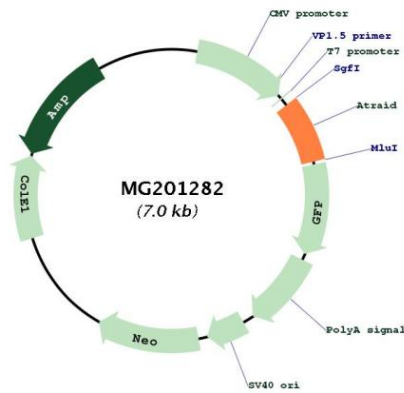
RefSeq ORF: 488 bp

Locus ID: 381629

Cytogenetics: 5 B1

Gene Summary: Promotes osteoblast cell differentiation and terminal mineralization. Plays a role in inducing the cell cycle arrest via inhibiting CCND1 expression in all-trans-retinoic acid (ATRA) signal pathway (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201282