

## Product datasheet for **MG214952**

### Oacyl (NM\_177028) Mouse Tagged ORF Clone

#### Product data:

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	TurboGFP
<b>Symbol:</b>	Oacyl
<b>Synonyms:</b>	5330437102Rik; Acyl3
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-AC-GFP (PS100010)
<b>E. coli Selection:</b>	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:** >MG214952 representing NM\_177028  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGATGGCCCTCACTTCGCTAGCTTGCTGCACGCTCTGTTCCCTTTGTTTCTCTGCAAGAAACATTT  
 CTCTCAAGTGCATGCAAGATACTGACGAATTCCTTTCTGATCTGAACCTCACTGAAGCCCAAAGAATACGC  
 TCTGAGAATGTATGACTCGGTGGGGAAGCTTGAAGCAACGTTCTTACCGCAACGTGGACAGGCTGGGA  
 TCCTACAGCGAGTGCCTTTCCACCCGGAGCCCCAAGGGGAGTTCCGGGGCAGTACTGCAAGCTTCATA  
 TCCTTCAGGATGGAACAGACTATAGTGTGGCGTGTGTGCCCTGATTCTTGTGCTGAAGAGGACGTGAC  
 CATGATGCTCAGCTGGTACTCTCAAGTTCAGAAACACGTCATTCTTGAACCTTCCCTCTCCCTCTTT  
 AAAAAAGACTTCTCATCTTGTGAAGTTGTGGCCAGATGTGCAGCTGGGGCCATGAGTCCAGATGTGT  
 TTGCTTCCGTGTGCTGTTTATCACCTTGTAGGCCTCGTCTTCTGTGGCTGGAAGTGTACATGGT  
 GGCCAGGACTGGGCTTGGACCTCAGGACATCGTCTGTACATGGGACTCCTCTACCAGTTGTGAGAGT  
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 CAGGAGCCCCAAGCAGAGGAAGAAGGTTTCTAGGAGCCGTGGATGAAGTCTGCAGTGTCTTTCTTGGCA  
 GAAGAACATGCCAGCCATCTGCAGCCAGAAGTCCAGGAGGCACCTGCCGGACACTAAATGGGATCCGA  
 GTCCTGAGTCTCCTCTGGGTTATCTCTGGACACACAGTGCAGTGCAGCTTGGCTATCTTTGGATAATG  
 TGCTCGAATGGAAATCCAGAGTGGCCGAGAACCACTGTACCTCTACTCTCGGAGTGGCCCACTTCTATCT  
 CGGGGTGGATACATTTTTCTCATCAGTGGTTGGCTAAGTGAAGGTCATTTCTAAAGATGCACCAGAAC  
 ACCAGCACAGGAATAACTCCTAAAGTATCCTCAGATACTTTCTGAAACGTTTTACAAGTTGCAGCTCC  
 TTCACATGTATTCTGTGCTTGTGCTGGTTGGTTCTTCTCTTTTGTCCCTGGGACCTGTCTGGGAAGT  
 GGCCAGTTCCACTGGGATAACTGCCGGGAGGTTTGGTGGACGAATCTGCTGTTGCTGAATAACTTCTCTG  
 TCTGTCCAGAAATGCCTGCAATGGCTGGACTTGGTACCTCGCCAGCGACTTCCAGTTCACCTGATGACAC  
 CGCTGATCTTCTCGTCCATGGAAAAAGTAAACGTGCCCTCGTCTCTTGGGGGCTGTGTTCTCTGGC  
 ATCTTCCACAGCCACTCTGCTCACCTTGGCTTATAAACTCCAGTGGCATCTCCAGCAGCAGCCAGT  
 GAACATGGGACTGTGCTCTATTTCTCAGAGTATTACACCAAGCCCTACTGCCGCTGTGGCCGTTCTCTTG  
 TAGGCCTCTTCTGAGCATGTTTATGCATTCAGACCACCCTACAGACATTCTCAAACGACGGTGCAGGC  
 CATGCTGGGCTGGACTTGGTCTGCTGACCCTGTTTGCAGTTGTTGCCCTGGCTTATGACTGGACGAT  
 ACCTCTCAAACCTTCCGTAGCTGCTGCCATCTACCAGGCCCTCCATCGTACCCTGTGGGCAGCAGCTG  
 TGGGCTGGGTGATCTTTCCTGTGAGGAGGCTATGGAGGTCCTGAAACGCATGCTTCTTGGGGCAT  
 CTGGAGTCTCCCGCCAGCATAAGCTACGCTTGTACCTCGTACACCCATTGTCATATTCTCTATAAC  
 GGACTGCAGGAGACCTTATCTACTACACAGACACCAACATGCTCTATCTTTCTCGGACACTGTGTGC  
 TGACCTTCTCGGTGGGCTGGTCTGACCCTGTTTATCGAGCGACCCTGGCAGGAACGAAGTGGGGCCT  
 GTGGGACACAGCCTGCTAGGCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

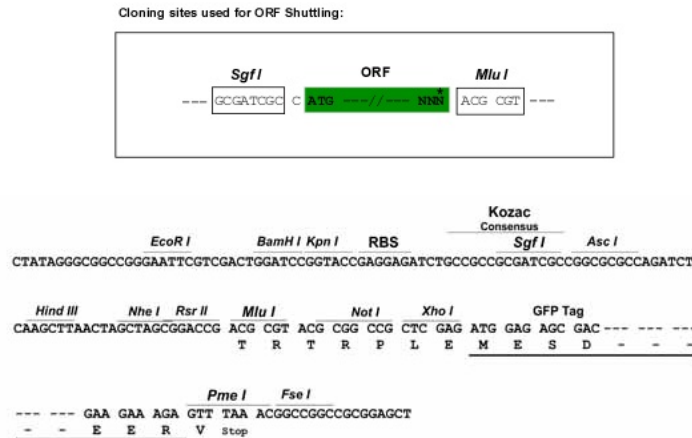
**Protein Sequence:** >MG214952 representing NM\_177028  
 Red=Cloning site Green=Tags(s)

MMALTSACLHALFPFVSPARNISLKCMQDTEFLSDLNSLKPKEYALRMYDSVGLGSNVLTGNVDRLG  
 SYSECLSTRSPKGSFRGQYCKLHILQDGTDYVGVCPDSCAEEDVTMMSQLGTLKFRNTSFLPESLSLF  
 TKDSSSSCEVVARCAAGAMSPDVFAVSVCLFITLLGLVLPVAGTVYVWARDWGLDLRTSSVHGTPTPTSCES  
 LPLRNMESNRQRSASCQVQLPPPAGPSRGRFLGAVDEVLQCFSWQKNMPAICSPPELPGGTCRNLNGIR  
 VLSLLWVISGHTSQMTAWLSLDNVLEWKSrvPENPLYLSRSGPFYLVGVDFFLISGWL SRSFLKMHQN  
 TSTGITPKVILRYFLKRFTRLQLLHMYSVLLVGFVFPVWGPVWEVAQFHWDCREVVWNTNLLLLNNFL  
 SVQNACNGWTWYLASDFQFHLMTPLIFFVHGKSKRALVLLGGLLFLASSTATLLTLAYKLPVAPSPAAAS  
 EHGTVLYFSEYYTKPYCRGPFVGLFSLMFMHSDHPTDILKTTVQAMLGWTWLLTLFAVVALAYVLDL  
 TSPTSSVAAAIIYQALHRTLWAAAVGWVIFACQEGYGGPVKRMLSWGIWSPASISYACYLVHPVIVILYN  
 GLQETLIHYTDTNMLYFFGHCVLTFLLGGLVTLFIERPWQELKWGLWGPEPARP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_177028

**ORF Size:** 2055 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.

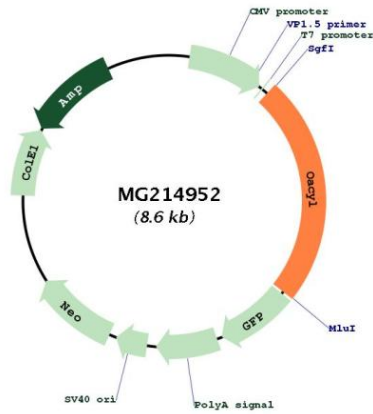
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_177028.3, NP\\_796002.1](#)

**RefSeq Size:** 3431 bp

RefSeq ORF: 2058 bp  
 Locus ID: 319888  
 UniProt ID: [Q8BML2](#)  
 Cytogenetics: 18 E1

**Product images:**



Circular map for MG214952