

## Product datasheet for **MG221052**

### Clec5a (NM\_021364) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Clec5a (NM\_021364) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Clec5a  
**Synonyms:** Clecsf5; Ly100; MDL-1; Mdl1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG221052 representing NM\_021364  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGTGGCACATGATCATCTCGGGCTTATCGTAGTAGTGATCAAAGTTGTTGGAATGACCTTTTTTC  
 TGCTGTATTTCTCACAGATCTTTGGGAGAAATGACGAAAGTACCATGCCTACAAGGAGCTATGGAACAGT  
 CTGTCCCAGAACTGGGATTTTACCAAGGAAAATGCTTTTTCTCTCCTTCTCCGAATCACCTTGAAA  
 GACAGCATGGATTATTGTGCAACACAAGGATCCACTGGCAATTGTCAACTCCAGAGAACTGAAGT  
 ATCTTCAGGACATAGCTGGTATTGAGAATTACTTTATTGGTTTGGTACGTCAGCCTGGAGAGAAAAGTG  
 GCGCTGGATCAACAACCTGTGTCAATGGCAATGTTACCAATCAGGACCAGAACTTCGACTGTGTCACT  
 ATAGGTCTGACGAAGACATATGATGCTGCATCATGTGAAGTCAGCTATCGCTGGATCTGCGAAATGAATG  
 CAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG221052 representing NM\_021364  
 Red=Cloning site Green=Tags(s)

MNWHMIISGLIVVVIKVVGMTFFLLYFSQIFGRNDESTMPTRSYGTVCPRNWFHQKCFSSFSESPWK  
 DSMDYCATQGSTLAIIVNTPEKLYLQDIAGIENYFVGLVRQPGEKKWRWINNSVFNQVNTQDNFDCVT  
 IGLTKTYDAASCEVSYRWICEMNAK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

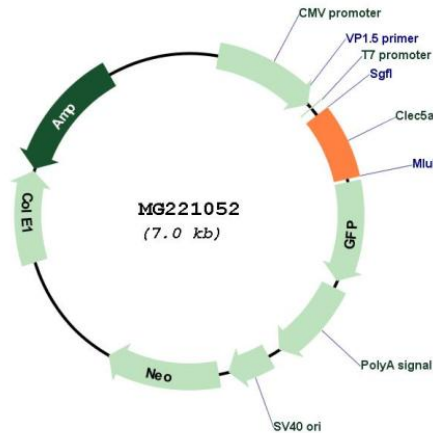


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_021364

ORF Size: 495 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_021364.2</a></u> , <u><a href="#">NP_067339.1</a></u>
<b>RefSeq Size:</b>	3745 bp
<b>RefSeq ORF:</b>	498 bp
<b>Locus ID:</b>	23845
<b>UniProt ID:</b>	<u><a href="#">Q9R007</a></u>
<b>Cytogenetics:</b>	6 B1
<b>Gene Summary:</b>	Functions as a positive regulator of osteoclastogenesis (PubMed:19251634). Cell surface receptor that signals via TYROBP (PubMed:10449773). Regulates inflammatory responses (PubMed:20212065).[UniProtKB/Swiss-Prot Function]