

## Product datasheet for **MG202579**

### Atraid (NM\_027855) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atraid (NM_027855) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atraid
Synonyms:	0610007C21Rik; AI316792; Apr3; HSPC013; p18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202579 representing NM_027855 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCTCGGGAGTCAGGCGGCTCTCGGGCGGCCGCCCTGCTCCTGGTTCTGGGCGTGGAGAGGGCCC  
TGGCTCTACCTGAGATATGCACCCTGTGTCCGGGAGGTATGCACAATTTGTCCAGAGTGGCTGCTTACTG  
TGAGGATACATCGAAGCTAATGCAGGCCGATGCTGCCTGAATCAGAAGGGCACCATCTTGGGGCTAGAT  
CTTCAGAACTGTCCCTGAAGGATCCTGGTCCAACTTTTACAGGCTTATACTGCTATTATCATAGACC  
TTCAGGCAAATCCTCTCAAGGATGATTTGGCCAACACCTCCGTGGGTTTACTCAGCTGCAGACTCTGAT  
ACTACCACAAGATGTTCCCTGTCCTGGAGGTAGTAATGCCTGGGACAATGTTACTTCTTTCAAGGACAAG  
CAGATTTGCCAAGGGCAAAGGGACCTTTGCAATAGCACTGGAAGCCCAGAAATGTGTCCTGAGAACGGAT  
CTTGTCATCTGACGGTCTGGTCTTTGTCAGTGCCTTTGTGCTGATGGTTTCCATGGATACAAGTGAT  
GAGGCAGGGCTCATTTTCACTGCTTATGTTCTTTGGGATTCTGGGATCCACCACGCTAGCCATCTCCATT  
CTACTTTGGGGAACCCAGCGCCGAAAGCCAAGGCTTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202579 representing NM\_027855  
 Red=Cloning site Green=Tags(s)

MASRESGGSRAAALLLVLGERALALPEICTLCPGGMHNL SRVAAYCEDTSKLMQARCLNQKGTILGLD  
 LQNCSLKDPGNFLQAYTAIIIDLQANPLKDDLANTFRGFTQLQLILPQDVPCPGGSNAWDNVTSFKDK  
 QICQGQRDL CNSTGSPENCPENGSCASDGPGLLQCVCADGFHGYKCMRQGSF SLLMFFGILGSTTLAISI  
 LLWGTQRRKAKAS

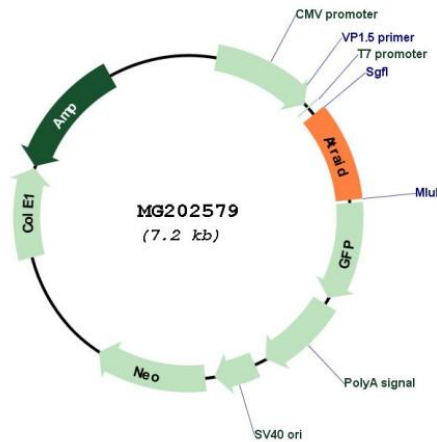
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_027855

**ORF Size:** 669 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_027855.4</a>
<b>RefSeq Size:</b>	979 bp
<b>RefSeq ORF:</b>	672 bp
<b>Locus ID:</b>	381629
<b>UniProt ID:</b>	<a href="#">Q6PGD0</a>
<b>Cytogenetics:</b>	5 B1
<b>Gene Summary:</b>	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]