

## Product datasheet for **MG205567**

### Aldoc (NM\_009657) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aldoc (NM_009657) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aldoc
Synonyms:	AI847350; AI; Aldo3; AU040929; Scr; Scrg2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205567 representing NM_009657 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCACTCATACCCAGCTCTTTCTGCTGAGCAGAAGAAGGAGTTGTCGGATATTGCTCTACGGATCG  
TGGCCCCCGCAAGGGCATTCTGGCTGCAGATGAGTCCGTAGGCAGCATGGCCAAAAGGCTGAGCCAAAT  
TGGGGTGGAGAACTGAGGAGAATCGCCGGCTGTACCGCCAGGTCCTATTCAGTGTGATGACCGTGTG  
AAAAAGTGCATTGGGGGGTCATCTTCTCCATGAGACTCTACCAGAAAGATGACAATGGTGTCCCT  
TCGTCCGACCATCCAGGATAAGGGCATTCTCGTAGGCATCAAGGTTGACAAGGGTGTAGTGCCTTAGC  
TGGGACCGACGGGAAACCACCACTCAAGGGCTGGATGGGCTCTTGAACGCTGTGCTCAGTATAAGAAG  
GACGGTGTGATTTTGCCAAATGGCGCTGTGTAATAAAATCAGTGATCGCACACCGTCGGCACTGGCCA  
TATTGGAGAATGCCAACGTGCTGGCCCGCTATGCCAGCATCTGCCAGCAGAAATGGGATCGTGCTATTGT  
GGAGCCTGAGATTCTGCCTGACGGAGACCATGACCTCAAACATTGCCAGTATGTTACAGAGAAGGTCCTG  
GCTGCTGTATAAAGGCCCTGAGTGACCATCATGTATACCTCGAAGGGACTCTGCTCAAGCCCAACATGG  
TGACCCCTGGCCATGCCTGTCCCATCAAGTATAGCCAGAAAGAGATTGCCATGGCAACTGCTACTGCCCT  
CGTCTCAACCTCAATGCCATCAACCGCTGCCACTTCCCAGGGTACTTTTCTGTCTGGGGTCAAGTGAAGAGGAGGCT  
GTGCCCTGCAGGCATCTGCACTCAATGCCTGGAGAGGACAAAGGATAATGCTGGGGCTGCTACTGAGGA  
GTTTATCAAGCGGCAGAGATGAACGGGCTTGCAGCCAGGGCAGATATGAAGGCAGTGGAGATGGCGGA  
GCAGCAGCACAGTCCCTACTCGTCCCAACCATGCCTAC

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205567 representing NM\_009657  
 Red=Cloning site Green=Tags(s)

MPHSPALSAEQKKEKLSDIALRIVAPGKGI LAADSVGSMKRLSQIGVENTEENRRLRYRQVLF SADDRV  
 KKCIGGVIFFHETLYQKDDNGVPFVRTIQDKGILVGIKVDKGVVPLAGTDGETTTQGLDGLLERCAQYKK  
 DGADFAKWRCVLKISDRTPSALAIENANV LARYASICQQNGI VIVEPEILPDGDHDLKHCQYVTEKVL  
 AAVYKALSDHHVYLEGTL LKPNM VTPGHACPIKYSPEEIAMATV T ALRRTVPPAVPGVTFLSGGQSEEEA  
 SLNLNAI NRCPLPRPWALTF SYGRALQASALNAWRGQRDNAGAATEEF IKRAEMNGLAAQGRYEGSGDGG  
 AAAQSLYVANHAY

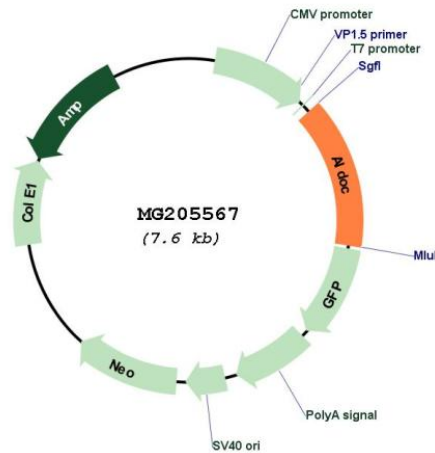
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_009657

<b>ORF Size:</b>	1089 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_009657.1</a>
<b>RefSeq Size:</b>	1703 bp
<b>RefSeq ORF:</b>	1092 bp
<b>Locus ID:</b>	11676
<b>UniProt ID:</b>	<a href="#">P05063</a>
<b>Cytogenetics:</b>	11 46.74 cM
<b>Gene Summary:</b>	This gene encodes a member of the aldolase family of enzymes that is mainly expressed in neuronal tissues. The encoded protein is an enzyme of the glycolysis pathway, and catalyzes the conversion of fructose-1,6-bisphosphate to glyceraldehyde-3-phosphate and dihydroxyacetone phosphate. Alternate splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2014]