

## Product datasheet for **MG224792**

### **Naa10 (NM\_019870) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Naa10 (NM_019870) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Naa10
Synonyms:	2310039H09Rik; Ard1; Ard1a; Te2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224792 representing NM_019870 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACATCCGCAATGCTAGGCCGAAGACCTGATGAACATGCAGCACTGCAACCTTCTCTGCCTGCCGG  
AGAACTACCAGATGAAGTACTATTTCTATCATGGCCTCTTTGGCCCCAGCTTTCTTACATTGCTGAGGA  
TGAGAATGGGAAGATTGTGGGCTACGTCTGGCTAAAA TGGAAGAGGACCCAGACGATGTGCCCATGGA  
CATATCACCTCACTGGCTGTGAAGCGTCCACCAGCGCCTTGGCCTGGCTCAGAAGCTGATGGACCAGG  
CCTCTCGAGCCATGATAGAGAATTCAATGCCAAATACGTCTCCCTGCATGTCAGGAAGAGTAACAGGGC  
CGCCTGCATCTCTATTCCAACACCCTCAACTTTCAGATCAGCGAAGTGGAGCCAAATACTATGCAGAT  
GGGAAGATGCGTATGCAATGAAGCGGGACCTCACGCAGATGGCTGATGAGCTGAGGCGGCACCTGGAGC  
TGAAGGAAAAGGGCAAGCACATGGTTCTGGCGCCTTGGAGAACAAGCGGAGAACAAAGGCAACGTGCT  
TCTGAGCTCAGGAGAGGCCTGTCGTGAGGAGAAGGGCCTGGCTGCTGAGGATAGTGGTGGGGACAGCAAG  
GACCTCAGTGAGGTGAGCGAGACCACAGAGACAGATGTCAAAGACAGCTCAGAGGCCTCTGACTCTG  
CCTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224792 representing NM\_019870  
 Red=Cloning site Green=Tags(s)

MNIRNARPEDLMNQHCNLLCLPENYQMKYFFYHGLSWPQLSYIAEDENKIVGYVLAKMEEDPDDVPHG  
 HITSLAVKRSHRRLGLAQKLMQASRAMIENFNAYVSLHVRKSNRAALHLYSNTLNFQISEVEPKYYAD  
 GEDAYAMKRDLTQMADELRRHLELKEKGKHMVLAALENKAENKGNVLLSSGEACREEKGLAAEDSGGDSK  
 DLSEVSETTESTDVKDSSEASDSAS

TRTRPLE - GFP Tag - V

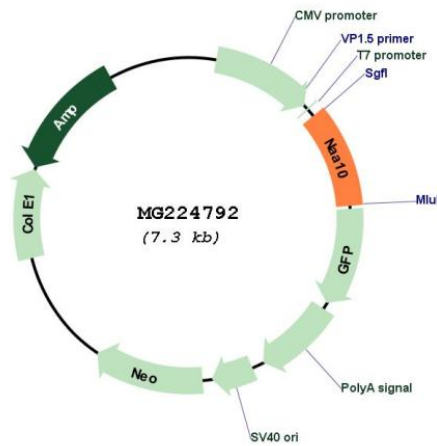
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_019870

**ORF Size:** 705 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_019870.3</a> , <a href="#">NP_063923.1</a>
<b>RefSeq Size:</b>	965 bp
<b>RefSeq ORF:</b>	708 bp
<b>Locus ID:</b>	56292
<b>UniProt ID:</b>	<a href="#">Q9QY36</a>
<b>Cytogenetics:</b>	X A7.3
<b>Gene Summary:</b>	Catalytic subunit of the N-terminal acetyltransferase A (NatA) complex which displays alpha (N-terminal) acetyltransferase activity (PubMed:12888564). Acetylates amino termini that are devoid of initiator methionine (By similarity). The alpha (N-terminal) acetyltransferase activity may be important for vascular, hematopoietic and neuronal growth and development (By similarity). Without NAA15, displays epsilon (internal) acetyltransferase activity towards HIF1A, thereby promoting its degradation (PubMed:12464182). Represses MYLK kinase activity by acetylation, and thus represses tumor cell migration (By similarity). Acetylates, and stabilizes TSC2, thereby repressing mTOR activity and suppressing cancer development (By similarity). Acetylates HSPA1A and HSPA1B at 'Lys-77' which enhances its chaperone activity and leads to preferential binding to co-chaperone HOPX (By similarity). Acts as a negative regulator of sister chromatid cohesion during mitosis (By similarity).[UniProtKB/Swiss-Prot Function]