

Product datasheet for **MR224792**

Naa10 (NM_019870) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Naa10 (NM_019870) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Naa10
Synonyms: 2310039H09Rik; Ard1; Ard1a; Te2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224792 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

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224792 representing NM_019870
Red=Cloning site Green=Tags(s)

MNIRNARPEDLMNMQHCNLLCLPENYQMKYFFYHGLSWPQLSYIAEDENGIKIVGYVLAKMEEDPDDVPHG
 HITSLAVKRSHRRLGLAQKLMQASRAMIENFNAYVSLHVRKSNRAALHLYSNTLNFIQI SEVEPKYYAD
 GEDAYAMKRDLTQMADELRRHLELKEKGMVLAALENKAENKGNVLLSSGEACREEKGLAAEDSGGDSK
 DLSEVSETTESTDVKDSSEASDSAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019870

ORF Size: 705 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.

RefSeq: [NM_019870.3](#), [NP_063923.1](#)

RefSeq Size: 965 bp

RefSeq ORF: 708 bp

Locus ID: 56292

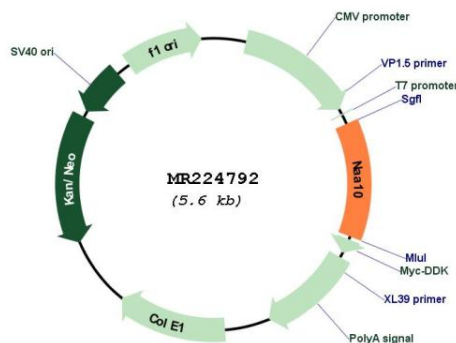
UniProt ID: [Q9QY36](#)

Cytogenetics: X A7.3

MW: 27 kDa

Gene Summary: 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]

Product images:



Circular map for MR224792