

Product datasheet for **MG212438**

Nap1l4 (NM_008672) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nap1l4 (NM_008672) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nap1l4
Synonyms:	2810410H14Rik; AI316776; D7Wsu30e; Nap2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG212438 representing NM_008672 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAAAACAGTCTTTCAGATGGAGGCCCTGCAGATTCTGTGGAAGCTGCTAAAAATGCCAGTAATA
CAGAAAACTCACAGACCAGGTGATGCAGAACCACAAGTGTGGCAGCTTTGCAGGAACGTCTTGACAA
CGTCTCTCACACTCCTTCTAGTTACATAGAACTTTACCTAAAGCTGTCAAAGAAGAATTAATGCCCTG
AAGCAGCTCCAGGTGAGGTGTGCGCACATAGAAGCTAAGTTCTACGAGGAAGTTCATGACCTGGAGAGGA
AGTATGCAGCCTTGTACCAGCCTCTATTTGACAAGAGAAGAGAATTCATCACTGGTGACGTGGAGCCAC
AGATGCAGAGTCAGCGTGGCACAGTGAGAATGAGGAGGAGACAAGTTGGCTGGAGATATGAAGAATAAA
GTAGTCATAGCTGAGAAAAGCAGCAACAGTGGAAAGAGCTGAACCCCAAAGGCATCCCTGAGTTCTGGT
TCACCATCTTCAGAAATGTGGACATGCTTAGTGAGCTGGTGCAGGAATATGATGAACCGATCTTGAAACA
TCTGCAGGATATTAAGTGAAGTTTTGAGACCCTGGACAACCTATGTCTTTTGTGCTAGAGTTTCACTTT
GAACCAACGACTACTTCACCAATCCTGTCCTGACGAAAACGTACAAGATGAAATCAGAGCCAGACAAGG
CCGACCCGTTTTCTTTGAAGTCTGAAATTGTGGACTGTGATGGGTGTACAATAGACTGGAAGAAAGG
AAAAATGTCACAGTCAAACCATCAAGAAAAAGCAGAAGCACAAGGGCCGGGCCACCGTACGAACCATC
ACCAAGCAAGTGCCCAATGAGTCTTCTCAACTTCTTCAGCCCCTGAAAGCCTCTGGAGATGGAGAAT
CTCTGGATGAAGATTCGAGTTCACCTTAGCCTCTGACTTTGAAATTGGGCACTTTTTCTGTGAGCGCAT
CGTGCCACGGGTGTCTCTACTTCACTGGGGAGGCCATAGAGGATGATGACAATTTTGAAGAAGCGGAG
GAAGGTGAAGAGGAGGAATTGGAAGGTGATGAAGAAGGAGAAGATGAGGATGATGCTGATGTTAACCCCA
AGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG212438 representing NM_008672
 Red=Cloning site Green=Tags(s)

MAENSLSDGGPADSVEAAKNASNTEKLTQVMQNPQVLAALQERLDNVSHTPSSYIETLPKAVKRRINAL
 KQLQVRCAHIEAKFYEEVHDLERKYAALYQPLFDKRREFITGDVEPTDAESAWHSENEEDKLAGDMKNK
 VVIAEKEAATVEELNPKGIPEFWFTIFRNVDMSELVQEYDEPILKHLQDIKVKFSDPGQPMSFVLEFHF
 EPNDYFTNPVLTKTYKMKSEPKADPFSEFEGPEIVDCGCTIDWKKGKNVTVKTIKKKQKHKGRGTVRTI
 TKQVPNESFFNFFSPLKASGDGESLDEDESEFTLASDFEIGHFFRERIVPRAVLYFTGEAIEDDDNFEEGE
 EGEEEELEGEDEGEDEDDADVNPKV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008672

ORF Size: 1125 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_008672.3](#), [NP_032698.1](#)

RefSeq Size: 2283 bp

RefSeq ORF: 1128 bp

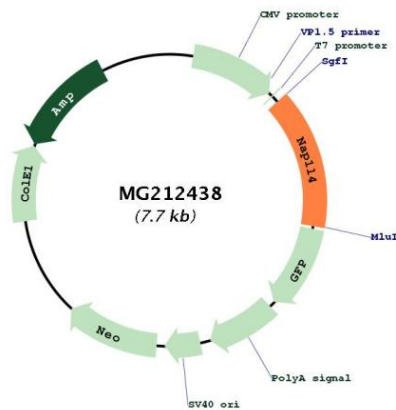
Locus ID: 17955

UniProt ID: [Q78ZA7](#)

Cytogenetics: 7 88.24 cM

Gene Summary: Acts as histone chaperone in nucleosome assembly (PubMed:28366643). In condensing spermatids, mediates the loading of the heterodimer composed of histones H2AFB1 and HIST1H2BA/TH2B onto the nucleosomes, thereby promoting the replacement of histones to protamine in male germ cells (PubMed:28366643).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG212438