

Product datasheet for **RG216714**

MAK3 (NAA30) (NM_001011713) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MAK3
Synonyms:	C14orf35; MAK3; Mak3p; NAT12; NAT12P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216714 representing NM_001011713
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGGAGGTACCGCCTGGGCCTAGCAGCCTCCTCCACCACCAGCACCTCCGGCCCCGGCGCGGTCTG
AGCCCCCGTGTCCCTTCCCGCGGGGGCCGCCCTCGCCTGCTGCAGCGAGGACGAGGAGGACGACGAAGA
GCACGAAGGCGGCGGCAGCAGGAGCCCGCGGGCGGAGAGTCGGCGACGGTGGCGGCCAAGGGGCATCCG
TGCTCCGCTGCCCTCAGCCGCCGAGGAGCAGCAGCTCAACGGATTGATTAGCCCCGAAGTCCGGC
ACCTCCGGGCGGCGCCTCCCTCAAGAGCAAGGTCCCGAGCGTAGCAGAGGTGGCCGCGACACAGCCAC
CCCTGACGGAGGCCCGAGGAGCTGCAACAAAAGGAGCGGGGTACACTCGGGCGAGAGGCCCCCTCAC
TCCCTCTCTAGTAATGCAAGAACTGCGGTCCCCAGCCCGGTGGAGGCAGCGCGCGAGCGATCCCGCGG
CGGCCCGCAATGGACTGGCCGAGGGCACCAGCAGGAGGAGGAGGAAGACGAGCAGGTGCGGTCTCT
GTCTTCGTCCCTGACCGCCGACTGCAGCTTAAGAAGCCCTTCGGGCAGGGAGGTTGAGCCTGGGAGGAT
CGGACGATACGATATGTCGATATGAATCCGAGCTACAAATGCCCGATATCATGAGACTGATCACCAAAG
ATCTGTCCGAACCTACTCCATTTATACCTATAGATATTCTATCCCAACTGGCCACAGCTGTGCTTCTT
GGCCATGGTAGGGAGGAGTGTGTAGGTGCCATCGTTTGAAGTTGGATATGCACAAAAGATGTTCCGC
AGAGGTTATATAGCCATGTTAGCCGTGGATTCCAAATACAGGAGAAATGGCATTGGTACTAACTTGTTA
AGAAAGCTATATATGCCATGTTGAGGGAGACTGTGATGAGGTTGTTTTGAAACCGAAATAACAAATAA
GTCCGCTTTGAACTTTATGAAATCTTGGTTTTGTTTCGAGATAAGAGGCTGTTTCAGATACTATTTAAAT
GGAGTTGATGCACTGCGACTTAACTGTGGCTGCGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



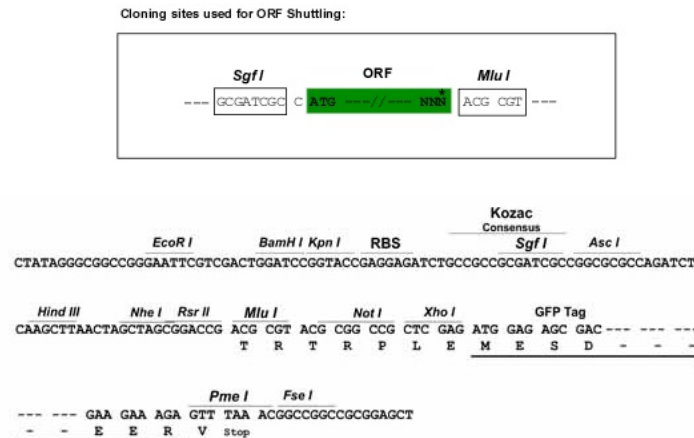
Protein Sequence: >RG216714 representing NM_001011713
Red=Cloning site Green=Tags(s)

MAEVPPGPSSLLPPPAPPAPAAVEPRCPFPAGAALACCSEDEEDDEEHEGGSRSPAGGESATVAAKGHP
CLRCPPPPQEQQLNGLISPELRHLRAAASLKSVPVSAEVAATTATPDGGPRATATKGAGVHSGERPPH
SLSSNARTAVPSPVEAAAADPAAARGLAEGTEQEEEEDEQVRLSSSLTADCSLRSPSGREVPEPGE
RTIRYVRYESELQMPDIMRLITKDLSEPYSIYTRYSIHNWPQLCFLAMVGEECVGAIVCKLDMHKKMFR
RGYIAMLAVDSKYRRNGIGTNLVKKAITYAMVEGDCDEVVLEITEITNKSALKLYENLGFVRDKRLFRYYLN
GVDALRLKLWLR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001011713

ORF Size: 1086 bp

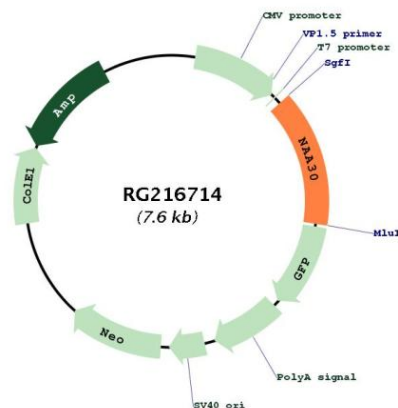
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001011713.1 , NP_001011713.1
RefSeq Size:	2891 bp
RefSeq ORF:	1089 bp
Locus ID:	122830
UniProt ID:	Q147X3
Cytogenetics:	14q22.3
Gene Summary:	Catalytic subunit of the N-terminal acetyltransferase C (NatC) complex. Catalyzes acetylation of the N-terminal methionine residues of peptides beginning with Met-Leu-Ala and Met-Leu-Gly. Necessary for the lysosomal localization and function of ARL8B suggesting that ARL8B is a NatC substrate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216714