OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC205604

N6AMT2 (EEF1AKMT1) (NM_174928) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	N6AMT2 (EEF1AKMT1) (NM_174928) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	N6AMT2
Synonyms:	ESP13; N6AMT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205604 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTGATTTGGAAGATGATGAGACACCCCAGCTTTCTGCCCATGCCTTAGCAGCTCTCCAGGAATTTT ATGCTGAGCAAAAGCAACAAATTGAGCCAGGCGAGGATGATAAATATAACATTGGAATAATAGAAGAGAA TTGGCAACTGAGCCAGTTTTGGTATAGTCAGGAAACTGCTCTGCAGCTGGCACAGGAGGCAATTGCAGCT GTAGGAGAAGGTGGCAGAATCGCATGTGTGAGTGCCCCTAGTGTTTACCAGAAACTCAGAGAGCTGTGCA GAGAAAACTTTTCGATATACATCTTTGAATATGACAAAAGATTTGCCATGTATGGAGAGGAGTTTATTTT CTATGATTACAATAATCCATTGGACTTACCCGAAAGAATTGCTGCACATAGTTTTGACATCGTAATAGCA GATCCTCCCTATCTTTCGGAGGAATGTCTCAGAAAAACATCGGAAACCGTCAAGTACCTGACGCGGGGCA AGATTCTGCTGTGCACAGGTGCCATCATGGAAGAACAGGCAGCAGAACTCCTTGGAGTGAAGATGTGCAC GTTTGTTCCAAGACACACCCGGAACTTGGCAAATGAGTTTCGCTGTTATGTGAATTATGATTCTGGGCTG GACTGTGGGATC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC205604 protein sequence
Red=Cloning site Green=Tags(s)

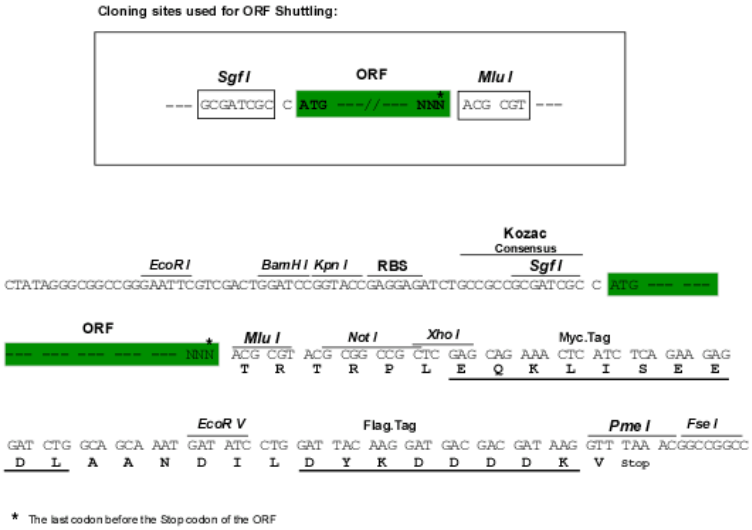
MSDLEDDETPQLSAHALAALQEFYAEQKQQIEPGEDDKYNIGIIEENWQLSQFWYSQETALQLAQEAIAA
VGEGGRIACVSAPSVYQKLRELCRENFSIYIFEYDKRFAMYGEEFIFYDYNNPLDLPERIAAHSFDIVIA
DPPYLSEECLRKTSETVKYLTRGKILLCTGAIMEEQAAELLGVKMCTFVPRHTRNLANEFRCYVNYDSGL
DCGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6312_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_174928

ORF Size: 642 bp

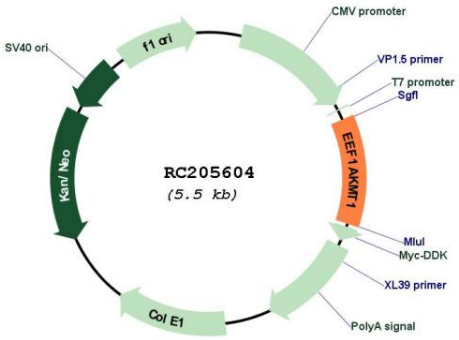
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

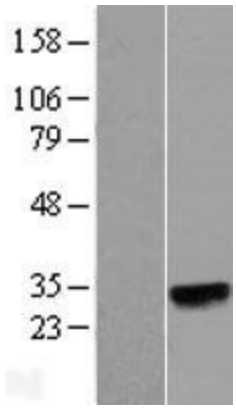
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_174928.2
RefSeq Size:	890 bp
RefSeq ORF:	645 bp
Locus ID:	221143
UniProt ID:	Q8WVE0
Cytogenetics:	13q12.11
MW:	24.5 kDa
Gene Summary:	Protein-lysine methyltransferase that selectively catalyzes the trimethylation of EEF1A at 'Lys-79'.[UniProtKB/Swiss-Prot Function]

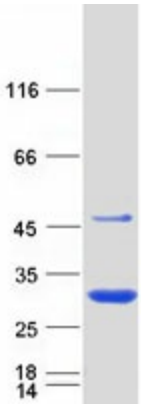
Product images:



Circular map for RC205604



Western blot validation of overexpression lysate (Cat# [LY406409]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205604 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EEF1AKMT1 protein (Cat# [TP305604]). The protein was produced from HEK293T cells transfected with EEF1AKMT1 cDNA clone (Cat# RC205604) using MegaTran 2.0 (Cat# [TT210002]).