

## Product datasheet for RC203298L3

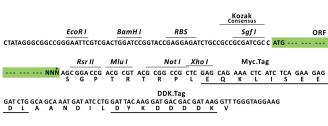
## EIF4A1 (NM\_001416) Human Tagged Lenti ORF Clone

## **Product data:**

## 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 Type:	Expression Plasmids
Product Name:	EIF4A1 (NM_001416) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	EIF4A1
Synonyms:	DDX2A; EIF-4A; eIF-4A-I; EIF4A; eIF4A-I
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203298).
<b>Restriction Sites:</b>	Sgfl-RsrII
Cloning Scheme:	
	Cloning sites used for ORF Shuttling: Sgf I ORF Rsr II GCG ATC GC ATG // NNN AGC GGA CCG



\* The last codon before the Stop codon of the ORF.

ACCN: NM\_001416 ORF Size: 1218 bp



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<b>GRIGENE</b> EIF4A1 (NM_001416) Human Tagged Lenti ORF Clone – RC203298L3	
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. <u>More info</u>
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:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 001416.2</u>
RefSeq Size:	1894 bp
RefSeq ORF:	1221 bp
Locus ID:	1973
UniProt ID:	<u>P60842</u>
Cytogenetics:	17p13.1
Domains:	DEAD, helicase_C
MW:	46.2 kDa
Gene Summary:	ATP-dependent RNA helicase which is a subunit of the eIF4F complex involved in cap recognition and is required for mRNA binding to ribosome. In the current model of translation initiation, eIF4A unwinds RNA secondary structures in the 5'-UTR of mRNAs which is necessary to allow efficient binding of the small ribosomal subunit, and subsequent scanning for the initiator codon.[UniProtKB/Swiss-Prot Function]

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