

Product datasheet for **RC205247**

Gemin 3 (DDX20) (NM_007204) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gemin 3 (DDX20) (NM_007204) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gemin 3
Synonyms:	DP103; GEMIN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC205247 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

 ATGGCGGCGGCATTTGAAGCCTCGGGAGCCTTAGCAGCAGTGGCGACTGCTATGCCGGCTGAGCATGTGG
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Protein Sequence:

>RC205247 protein sequence

Red=Cloning site Green=Tags(s)

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Chromatograms:

https://cdn.origene.com/chromatograms/mk6139_g04.zip

Restriction Sites:

Sgfi-MluI

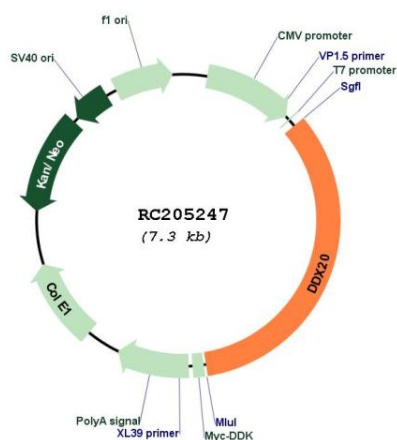
Cloning Scheme:



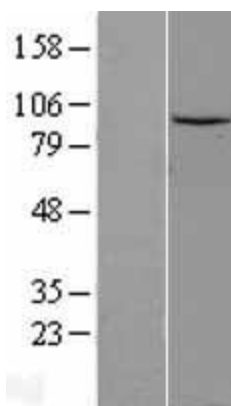
ACCN:	NM_007204
ORF Size:	2472 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_007204.5
RefSeq Size:	3513 bp
RefSeq ORF:	2475 bp
Locus ID:	11218
UniProt ID:	Q9UHI6
Cytogenetics:	1p13.2
Domains:	DEAD, helicase_C
Protein Families:	Druggable Genome
MW:	92.2 kDa
Gene Summary:	DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which has an ATPase activity and is a component of the survival of motor neurons (SMN) complex. This protein interacts directly with SMN, the spinal muscular atrophy gene product, and may play a catalytic role in the function of the SMN complex on RNPs. [provided by RefSeq, Jul 2008]

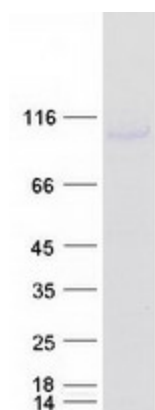
Product images:



Circular map for RC205247



Western blot validation of overexpression lysate (Cat# [LY402106]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205247 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DDX20 protein (Cat# [TP305247]). The protein was produced from HEK293T cells transfected with DDX20 cDNA clone (Cat# RC205247) using MegaTran 2.0 (Cat# [TT210002]).