

# Product datasheet for MG201345

## Gemin6 (NM\_026053) Mouse Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

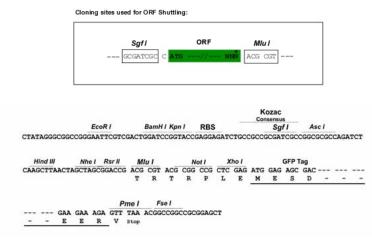
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Product Type:	Expression Plasmids
Product Name:	Gemin6 (NM_026053) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gemin6
Synonyms:	2610019B15Rik; 2810470M17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG201345 representing NM_026053 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAGCGAATGGATGAAGAAAAGCCCCTTAGAATGGGAAGATTACGTTTATAAAGAAGTGAGAGTGATAG CCTGTGAGAAGGAGTATAAAGGATGGCTTCTAACCACAGATCCAGTCTCTGCCAACATTGTCCTCGTAAA CTTCCTTGAAGATGGCAGATTGTCTGTGACTGGAATCATGGGCCACTCTGTGCAGACTGTGGAAACCATA AGTGAAGGGGACCACAGAGTACGCGAGAAGCTGATGCATGTGTTTGCATCTGGAGACTGTAAAGGATACA GCCCCGAGGATCTGGAAGAGAAGA
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	>MG201345 representing NM_026053 Red=Cloning site Green=Tags(s)
	MSEWMKKSPLEWEDYVYKEVRVIACEKEYKGWLLTTDPVSANIVLVNFLEDGRLSVTGIMGHSVQTVETI SEGDHRVREKLMHVFASGDCKGYSPEDLEEKRTSLKKWLEKNHIPVTEQGDAQRTLCVAGVLTIDPPYAP ENCSSSNEIILSRIQDLIQGHLSASQ
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul

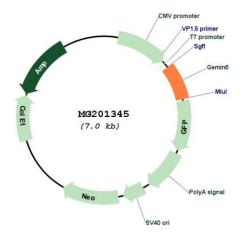


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#### **Cloning Scheme:**



#### Plasmid Map:



ACCN:	NM_026053
ORF Size:	498 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. <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.

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Gemin6 (NM_026053) Mouse Tagged ORF Clone – MG201345	
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 026053.4</u>
RefSeq Size:	1089 bp
RefSeq ORF:	501 bp
Locus ID:	67242
UniProt ID:	<u>Q9CX53</u>
Cytogenetics:	17 E3
Gene Summary:	The SMN complex plays a catalyst role in the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Thereby, plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP. In the cytosol, the Sm proteins SNRPD1, SNRPD1, SNRPD2, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S plCln-Sm complex by the chaperone CLNS1A that controls the assembly of the

core snRNP. Dissociation by the SMN complex of CLNS1A from the trapped Sm proteins and their transfer to an SMN-Sm complex triggers the assembly of core snRNPs and their transport to the nucleus (By similarity).[UniProtKB/Swiss-Prot Function]

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