

Product datasheet for **MG201345**

Gemin6 (NM_026053) Mouse Tagged ORF Clone

Product data:

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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGAATGGATGAAGAAAAGCCCTTAGAATGGGAAGATTACGTTTATAAAGAAGTGAGAGTGATAG
CCTGTGAGAAGGAGTATAAAGGATGGCTTCTAACCACAGATCCAGTCTCTGCCAACATTGCCTCGTAAA
CTTCTTGAAGATGGCAGATTGTCTGTGACTGGAATCATGGCCACTCTGTGCAGACTGTGGAAACCATA
AGTGAAGGGGACCACAGAGTACGCGAGAAGCTGATGCATGTGTTTGCATCTGGAGACTGTAAGGATACA
GCCCGGAGGATCTGGAAGAGAAGAGGACCAGCCTCAAGAAATGGCTGGAGAAGAACCACATTCTGTCCAC
CGAGCAGGGGATGCACAAAGGACTCTCTGTGTGGCTGGGTTCTGACTATAGACCACCATACGCTCCA
GAAAACCTGCAGCAGCTCCAATGAGATCATTCTGTCCCGAATTCAGGATCTTATCAAGGACATCTTTCAG
CTTCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201345 representing NM_026053
Red=Cloning site Green=Tags(s)

MSEWMKKSPLWEDYVYKEVRVIAACEKEYKGWLLTTDPVSANIVLVNFLEDGRLSVTGIMGHSVQTVETI
SEGDRVREKLMHVFASGDCKGYSPELLEEKRTSLKKWLEKNHIVTEQQGDAQRTLCAVGLTIDPPYP
ENCSSSNEIILSRIQDLIQHLSASQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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 style="list-style-type: none">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.
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, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-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]