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Product datasheet for MR227441

Gemin2 (NM_025656) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gemin2 (NM_025656) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gemin2
Synonyms:	gemin-2; S; Sip1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR227441 representing NM_025656 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGTGGGTTCCAGCCGAGTCTGCGGTGGAAGAGTTGATGCCACGGTTGTTACCTGTGGAGCCCTGTG ACTTGACGGAAGGTTTCGATCCCTCGGTCCCCCCCAGGACGCCTCAGGAATATCTGAGGAGAGTGCAGAT CGAAGCAGCCCAATGTCCAGATGTTGTGGTAGCCCAGATTGACCCAAAGAAGTTGAAAAGGAAGCAAAGT GTGAACATTTCTCTTTCCGGATGCCAGCCTGCGCCTGAAGGTTACTCTCCAACACTTCAGTGGCAACAAC AACAAGTGGCACATTTTTCAACTGTTCGACAGAGTGTACACAAGCATAGAAATCACTGGAAATCACAACA GTTGGACAGTAATGTGGCAATGCCAAAATCTGAAGATGAAGAAGGCTGGAAAAAATTTTGTCTGGGTGAA AGGTTATGTGCTGAAGGGGCCACTGGACCGTCTACAGAGGAAAGCCCTGGGATCGATTATGTACAAGTTG GTTTTCCTCCTTTGCTTAGTATTGTAAGCAGAATGAATCAGACAACCATTACTAGTGTCTTGGAATATCT AAGTAATTGGTTTGGAGAAAGAGACTTTACTCCAGAATTGGGAAGATGGTTTTATGCTTTGTTGGCTTGT CTTGAAAAGCCTTTATTACCTGAGGCTCATTCACTAATCCGACAGCTTGCAAGAAGATGTTCTGAAGTGA GGCTGCTGGTGGGCAGTAAAGATGACGAAAGAGTCCCAGCTTTGAATCTGCTGATCTGCTTAGTTAGCAG GTATTTTGATCAACGCGATTTAGCTGATGAGCCATCT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

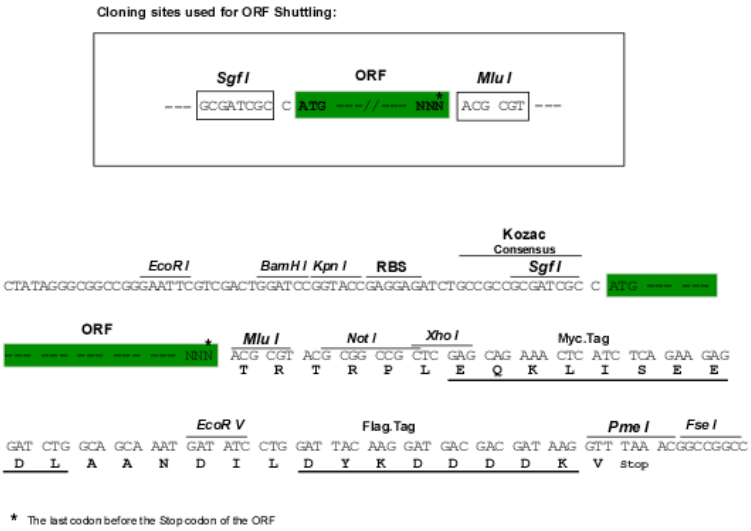
>MR227441 representing NM_025656
Red=Cloning site Green=Tags(s)

MAWVPAESAVEELMPRLLPVEPCDLTEGFDPSVPPRTPQEYLRRVQIEAAQCPDVVVAQIDPKKLKRKQS
VNISLSGCQPAPEGYSPTLQWQQQQVAHFSTVRQSVHKHRNHWKSQQLDSNVAMPKSEDEEGWKKFCLGE
RLCAEGATGPSTEESPGIDYVQVGFPPLLSIVSRMNQTTITSVLEYLSNWFGERDFTPELGRWFYALLAC
LEKPLLPEAHSLIRQLARRCSEVRLLVGSKDDERVPALNLLICLVSRYFDQRDLADEPS

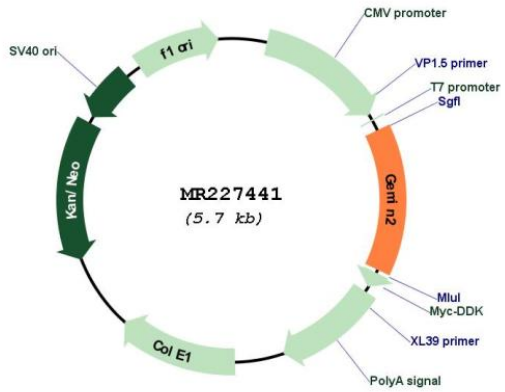
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_025656

ORF Size: 807 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.
RefSeq:	NM_025656.5, NP_079932.2
RefSeq Size:	1106 bp
RefSeq ORF:	810 bp
Locus ID:	66603
UniProt ID:	Q9CQQ4
Cytogenetics:	12 C1
MW:	30.9 kDa
Gene Summary:	This gene encodes one of the proteins found in the survival of motor neuron (SMN) complex, which consists of the SMN protein and several gemin proteins. The SMN complex is localized to a subnuclear compartment called gems (gemini of coiled bodies) and is required for assembly of spliceosomal small nuclear ribonucleoproteins (snRNP) and for pre-mRNA splicing. This protein interacts directly with the SMN protein and it is required for formation of the SMN complex. Disruption of this gene in mouse resulted in impaired snRNP assembly, and motor neuron degeneration. [provided by RefSeq, Sep 2015]