

Product datasheet for **SC115683**

Gemin 3 (DDX20) (NM_007204) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gemin 3 (DDX20) (NM_007204) Human Untagged Clone
Tag:	Tag Free
Symbol:	Gemin 3
Synonyms:	DP103; GEMIN3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115683 sequence for NM_007204 edited (data generated by NextGen Sequencing)

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ATGGCGGCGGCATTTGAAGCCTCGGGAGCCTTAGCAGCAGTGGCGACTGCTATGCCGGCT
GAGCATGTGGCCGTGCAGGTCCCGGCCCCAGAGCCAACACCCGGGCTGTGAGGATCCTG
CGGACCGCTCAGGATCTCAGCAGCCCGGACCCGACGGGGATGTGCTGTTGGCGGAG
CCGGCCGACTTCGAGTCACTGCTGCTTTTCGGGCCGGTGTGGAGGGGCTGCGGGCGGCC
GGCTTCGAGAGGCCCTCGCCGGTGCAGCTCAAGGCCATCCGTTGGGGCGCTGCGGGCTC
GATTTAATTGTTCAAGCTAAATCTGGCACCGGAAAACCTGTGTGTTCTCCACCATAGCT
TTGGACTCTCTGTTCTTGAAAACCTTAAGTACCCAGATTTTGATCTTGGCTCCTACAAGA
GAAATTGCTGTACAGATACATTCTGTTATTACAGCCATTGGAATAAAAATGGAAGCTTA
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TGTCATATTGCTGTTGGATCTCCTGGCAGAATTAAGCAACTCATAGAAGTACTGACTTGG
AACCCAGGCAGTATACGCTCTTTATTCTTGATGAAGCAGATAAGCTTTTGAAGAAGGC
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CATAGTAACCAAGTGA

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Clone variation with respect to NM_007204.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007204 unedited
 ATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGAGATCTGACG
 GCGCGGCTACCATGGCGGCGGCATTGTAAGCCTCGGGAGCCTTAGCAGCAGTGCGGACTG
 CTATGCCGGCTGAGCATGTGGCCGTGCAGGTCCCGGCCCCAGAGCCAACACCCGGGCCTG
 TGAGGATCCTGCGGACCGCTCAGGATCTCAGCAGCCCGGACCCGCACGGGGGATGTGC
 TGTTGGCGGAGCCGCGGACTTCGAGTCACTGCTGCTTTTCGCGGCCGGTCTGGAGGGGC
 TCGGGGCGGCGGCTTCGAGAGGCCCTCGCCGGTGCAGCTCAAGGCCATCCCGTTGGGGC
 GCTGCGGGCTCGATTTAATTGTTCAAGCTAAATCTGGCACCGGGAACCTGTGTGTTCT
 CCACCATAGCTTTGACTCTCTGTTCTTGAAACTTAAGTACCCAGATTTTGATCTTGG
 CTCCTACAAGAGAAATTGCTGTACAGATACATTCTGTTATTACAGCCATTGGAATAAAAA
 TGGAAGGCTTAGAGTGTCATGTCTTTATTGGAGGGACCCATTATCACAAGACAAAACCA
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 TTGACTACTTGAACCCAGGCAGTATACGCCTCTTATTCTTGATGAAGCAGATAAGCTNT
 TAGAAGAAGGCAGCTTCCAGGAGCAAATAAATTGGATTTATTCTTNCCTGGCCTGCCAGT
 AAACAGATGCTGGCAGTATCAGTACTTATCCCGAATTTTGGNNCTATGGCTTGACAAA
 GTACATGAGAGACCCACTTTTGTAGACTGAATNCAGTGATCCAGTCTCATAGTTTGAGC
 AGTATACAAAGTGTCATTTCTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007204 unedited
 CGCGGCCCAATCTAGNATCGAGGTTTTTTTTTTTTTTTTTTTGTCTAATCAATCTATTGC
 TTTTATTGTTTTTAAGTAAGTGGTGTATATGTCATCTTTTAAATGTTTCTTTTGGGAA
 GATCTTATAGAAAATGGCACCTGAAACTTTTCAGCTCTATGTCCCAAAATTATCTTTCA
 ACAATCTGATGAAGTTTCTTAAAGAACTCTTAAAAATGAAGATAATATACCTGGCCTAA
 ATCAAAAATCTGAAAAATGGATGTGTCCAGTGGAAAGACTCAAGTCTTTTCAAGTTT
 ATCAGAAATGCCACTATACCACTGTACTATAAGTCGAGGAGGATGGATATCCAAAGGT
 ATCATTGTTGTACAGTTCCTGATGGTCTCAGGTATATCCTATAATCACTGGTTACTATGC
 ATCATTCTTGTAGATAAATGGTATTATGTGATAAGCTGCCATCCAACCTGGATGTCTC
 TGAGCATTCCAATAATATGAATGAGAAGCGGCAGCATAATATTCTTGCCATGCCCTGTAG
 TAAGCTCTCCAGTACTCCCATATCTCTGGGCTTAAGTCTGCAATCCGAAGGAAGACCGC
 CTATGACAGTCTACCAATCATCTTCTGGGCTTAAGTCTGCAATCCGAAGGAAGACCGC
 CTGGGTAGGTTTTCTCCGCTCCTGCTTACCTCTCTGGCTCGCCCCCTCTTATGCTCTGCC
 TCCATCTGGACTCCAGGATCCTTGGTATTCTCTGGATCGCGGCGGCCCCCTCCCTCC
 GCCGGTGCCTCCAAAAACACCACCATCCCCGGCCCAAGAACCAAGACCTCCACCCGCA
 CTTACCACAATCCCCTCACGTCTCAACTCTCTCCCTCTCGCGGCCAGAGGGTCCACCC
 CCCCACCATCCACGTACCTCCAGACGCCCCACAGCCTTCCCTGCGCACCCCCACCCCT
 C

Restriction Sites:

NotI-NotI

ACCN:

NM_007204

Insert Size:

2800 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_007204.3, NP_009135.3</u>
RefSeq Size:	3449 bp
RefSeq ORF:	2475 bp
Locus ID:	11218
UniProt ID:	<u>Q9UHI6</u>
Cytogenetics:	1p13.2
Domains:	DEAD, helicase_C
Protein Families:	Druggable Genome
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]