

Product datasheet for **SC113638**

HMG20A (NM_018200) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMG20A (NM_018200) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMG20A
Synonyms:	HMGX1; HMGXB1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018200, the custom clone sequence may differ by one or more nucleotides

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ATGAAAACTTGATGACTAGCTCCACCCTACCGCCCCTTTTTCAGATGAAGACGGTTCCAAGGAGAGTA
ATGATCTGGCTACCACTGGGTTAAATCACCCAGAGGTTCCATACAGTAGTGGCGCCACATCATCCACCAA
CAATCCAGAATTTGTGGAGGATCTCTCAAGGTCAGTTGCTTCAGAGTGAGTCTTCAAATGCAGCAGAA
GGCAATGAACAGAGGCATGAAGATGAGCAACGAAGTAAACGAGGAGGTTGGTCCAAGGAAGAAAGAGGA
AGAAACCTCTTCGAGACAGCAATGCACCCAAATCCCCCTTACAGGATATGTTTCGGTTCATGAATGAGCG
TCGAGAACAACCTCGAGCAAAGAGACCAGAAGTCCCATTTCCAGAAATCACAAGGATGTTAGGCAATGAA
TGGAGTAAACTGCCTCCTGAGGAAAAACAGCGCTACCTTGATGAAGCAGACAGAGATAAGGAGCGTTACA
TGAAGGAACTGGAACAGTATCAGAAAACAGAGGCCTACAAGTCTTCAGTAGGAAAACCCAGGACCGTCA
GAAAGGCAAATCTCATAGGCAAGATGCAGCCCGCAGGCCACTCATGATCATGAGAAAGAAACAGAGGTA
AAGGAACGGTCTGTTTTGACATCCCTATATTTACAGAGGAATCTTGAACCATAGCAAAGCTCGGGAAG
CAGAGCTCCGCCAGCTTCGCAAATCCAACATGGAGTTTGAGGAGAGGAATGCAGCCCTGCAAAAGCACGT
GGAGAGCATGCGCACAGCAGTGGAGAAGCTGGAGGTGGATGTGATCCAGGAGCGGAGCCGCAACACAGTC
TTACAGCAGCACCTGGAGACCTGCGGCAGGTGCTGACCAGCAGCTTTGCCAGCATGCCCTTGCCTGGAA
GTGGAGAGACACCTACAGTGGACACCATTGACTCATATATGAACAGACTGCACAGTATTATTTAGCTAA
TCCCAAGACAATGAAAACCTTCATAGCTACAGTTCGAGAAGTTGTGAACAGACTCGATCGTTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018200 unedited
 TTGGATATTTGTATACGACTTCACTATAGGGCGGCCGGAATCGGCACGAGGGNAAAAGNA
 TGGAAAACCTTGATGACTAGCTCCACCCTACCGCCCTTTTTGCAGATGAAGACGGTTCCA
 AGGAGAGTAATGATCTGGCTACCACTGGGTTAAATCACCCAGAGGTTCCATACAGTAGTG
 GCGCCACATCATCCCAACAATCCAGAATTTGTGGAGGATCTCTCTCAAGGTCAGTTGC
 TTCAGAGTGAGTCTTCAAATGCAGCAGAAGGCAATGAACAGAGGCATGAAGATGAGCAAC
 GAAGTAAACGAGGAGGTTGGTCCAAAGGAAGAAAGAGGAAGAAACCTCTTCGAGACAGCA
 ATGCACCCAAATCCCCCTTACAGGATATGTTTCGGTTTCATGAATGAGCGTCGAGAACAAC
 TTCGAGCAAAGAGACCAGAAGTCCATTTCAGAAATCACAAGGATGTTAGGCAATGAAT
 GGAGTAAACTGCCTCCTGAGGAAAAACAGCGCTACCTTGATGAAGCAGACAGAGATAAGG
 AGCGTTACATGAAGGAACTGGAACAGTATCAGAAAACAGAGGCCTACAAGGTTCTCAGTA
 GGAAAACCCAGGACCGTCAGAAAGGCAATCTCATAGGCAAGATGCAGCCCGCAGGCCA
 CTCATGATCATGAGAAAGAAACAGAGGTAAGGAACGGTCTGTTTTGACATCCCTATAT
 TTACAGAGGAATCTTGAACCATAGCANAGCTCGGGAAGCAGAGCTCCGCCAGCTTCGCA
 NATCCACATGGAGTTTGGAGAGGAAATGCAGCCCTGCAAAGCACGTGGAGAGCATGCG
 CACAGCAGTGGAGAAGCTGGNAGTGAATGTGATCCAGAAGCGGAGCCGCACACAGTCTTA
 CAGCAGCACCTGGAGAACCTGNCCCGAGTGCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018200 unedited
 TGGCACTCCAGGGCCAGGNATAGCACTGGGGAGGGTTCACAGGGATGCCACCCGGGATC
 TGTTCCAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTT
 TTCAACGTAATAAAGTTTAAATGAGACAAATGTCAAACAAGCACATCAACTTCTTAAAAA
 ACAAGAAAAATCTGAAAGTTAATTACAAAAACTTATACAGAAAACCTGGCATTTCAA
 CAGTTCCAAACACATGTACACAAGTTTTTCTAAAATCAGTCAGAAATAAAATACCTTGT
 CTCCTTTCTCAGCTGCTTCTTGTATTTAATTAATAAAGAAACAAGAAATCTGTAACA
 CTGAATAGGCAACAACCTATTTCTTGAGAACATAAAAAGTACAGTAATATCTACCTTNNCT
 TCTGGGAAACATGAATTAGGTATTGGGCTAGCCTGTAACCTTACTGCTCCTCACT
 GACCACAGAGGAGAGAGGAGGTGGCACAGACCTGGTCTATAGATACTGACAGTTTTGTGG
 CATCTGAATCCCAGCCACCAGAGGCAGGTGAGTAGCTACTGGGAAAGACAGCATTTCAGA
 AGCAAGCTGCTTATTTGTGAAAATGATTCATACTGTAGGCTCTCTTGAATCTCATGC
 ATCCAGTNNNNATGTTATGGCCTTTTCTGGCACAAAGCAGGCTAGCATGCTGCACAAAC
 TGACCCAATGAGAACAAAATTGAGGAGAGGAGACAGACCAAGCATTTCGAAAGAAAAAAA
 ACTCAAATGGGCTTGATGCTCTGCTAAACGAGATTTACCTGGGCTTGAGACAAGAGT

Restriction Sites:

NotI-NotI

ACCN:

NM_018200

Insert Size:

3520 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:	<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:	NM_018200.2 , NP_060670.1
RefSeq Size:	3898 bp
RefSeq ORF:	1044 bp
Locus ID:	10363
UniProt ID:	Q9NP66
Cytogenetics:	15q24.3
Domains:	HMG
Protein Families:	Transcription Factors
Gene Summary:	<p>Plays a role in neuronal differentiation as chromatin-associated protein. Acts as inhibitor of HMG20B. Overcomes the repressive effects of the neuronal silencer REST and induces the activation of neuronal-specific genes. Involved in the recruitment of the histone methyltransferase KMT2A/MLL1 and consequent increased methylation of histone H3 lysine 4 (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 2 encode the same isoform (a).</p>