

## Product datasheet for **RG201894**

### HMG20A (NM\_018200) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HMG20A (NM_018200) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HMG20A
Synonyms:	HMGX1; HMGXB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201894 representing NM_018200 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGAAAACTTGACTAGCTCCACCCTACCGCCCTTTTTGCAGATGAAGACGGTTCCAAGGAGAGTA  
ATGATCTGGCTACCACTGGGTTAAATCACCCAGAGGTTCCATACAGTAGTGGCGCCACATCATCCACCAA  
CAATCCAGAATTTGTGGAGGATCTCTCAAGGTCAGTTGCTTCAGAGTGAGTCTTCAAATGCAGCAGAA  
GGCAATGAACAGAGGCATGAAGATGAGCAACGAAGTAAACGAGGAGGTTGGTCCAAGGAAGAAAGAGGA  
AGAAACCTCTTCGAGACAGCAATGCACCCAAATCCCCCTTACAGGATATGTTTCGGTTCATGAATGAGCG  
TCGAGAACAACTTCGAGCAAAGAGACCAGAAGTCCATTTCCAGAAATCAAGGATGTTAGGCAATGAA  
TGGAGTAAACTGCCTCCTGAGGAAAAACAGCGCTACCTTGATGAAGCAGACAGAGATAAGGAGCGTTACA  
TGAAGGAACTGGAACAGTATCAGAAAAACAGAGGCCACAAAGTCTTCAGTAGGAAAAACCCAGGACCGTCA  
GAAAGGCAAACTCATAGGCAAGATGCAGCCCGGAGGCCACTCATGATCATGAGAAAGAAAACAGAGGTA  
AAGGAACGGTCTGTTTTGACATCCCTATATTTACAGAGGAATCTTGAACCATAGCAAAGCTCGGGAAG  
CAGAGCTCCGCCAGCTTCGCAAATCCAACATGGAGTTTGAGGAGAGGAATGCAGCCCTGCAAAAGCACGT  
GGAGAGCATGCGCACAGCAGTGGAGAAGCTGGAGTGGATGTGATCCAGGAGCGGAGCCGCAACACAGTC  
TTACAGCAGCACCTGGAGACCCTGCGGAGGTGCTGACCAGCAGCTTTGCCAGCATGCCCTGCCCTGGAA  
GTGGAGAGACACCTACAGTGGACACCATTGACTCATATATGAACAGACTGCACAGTATTATTTTAGCTAA  
TCCCAAGACAATGAAAACCTCATAGCTACAGTTCGAGAAGTTGTGAACAGACTCGATCGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201894 representing NM\_018200  
 Red=Cloning site Green=Tags(s)

MENLMTSSTLPLPLFADEDGSKESNDLATTGLNHPEVPYSSGATSSSTNNPEFVEDLSQGQLLQSESSNAAE  
 GNEQRHEDEQRSKRGGWSKGRKRRKPLRDSNAPKSPLTGYVRFMNERREQLRAKRPEVPFPEITRMLGNE  
 WSKLPPEEKQRYLDEADRDKERYMKELEQYQKTEAYKVF SRKTQDRQKKGSHRQDAARQATHDHEKETEV  
 KERSVFDIPIFTEEFLNHSKAREAELRQLRKSNMFEERNAALQKHVESMRTAVEKLEVDVIQERSRNTV  
 LQQHLETLRQVLTSSFASMPPLPGSGETPTVDTIDSYMNRLHSIILANPQDNENFIATVREVVNRLDR

TRTRPLE - GFP Tag - V

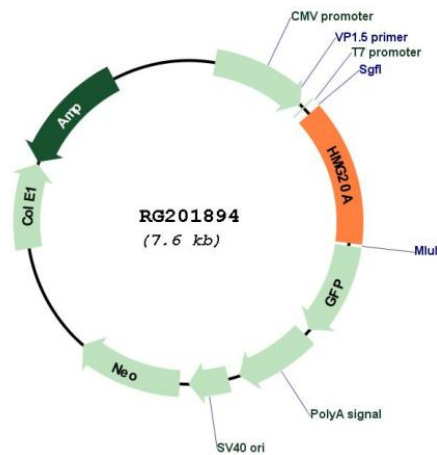
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_018200

**ORF Size:** 1041 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_018200.3</a>
<b>RefSeq Size:</b>	3898 bp
<b>RefSeq ORF:</b>	1044 bp
<b>Locus ID:</b>	10363
<b>UniProt ID:</b>	<a href="#">Q9NP66</a>
<b>Cytogenetics:</b>	15q24.3
<b>Domains:</b>	HMG
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	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]