

Product datasheet for **MG205225**

Hmg20a (NM_025812) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmg20a (NM_025812) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hmg20a
Synonyms:	1200004E06Rik; 5730490E10Rik; Hmgxb1; lbraf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205225 representing NM_025812 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGCTTGATGGCCAGTTCTACCCTGCCGCCCTGTTTGCAGATGAAGATGGCTCCAAGGAGAGCA
ATGATCTGGCTACATCTGGGTTAACACACCCCGAGGGTCCGTATGGCAGTGCAGCCACATCAACAACCAA
CCCAGAGTTTGTGGAGGATCTCTCCAAGGCCAGCTGCTTCAGAGTGAGGCTTCCAATGCTGTAGAAGGC
AATGAGCAAAGGCCTGAAGATGAGCAAAGAAGTAAACGAGGAGGTTGGTCCAAGGGAGAAAAAGGAAGA
AACCTCTCGAGACAGCAATGCACCTAAATCCCCCTTACAGGATATGTTTCGATTCATGAACGAGCGTAG
AGAACAGCTTCGAGCAAAGAGACCAGAGGTTCCATTTCCAGAAATCACAAGGATGTTGGCAATGAGTGG
AGTAAACTGCCTCCTGAGGAAAAGCAGCGCTACCTTGATGAAGCAGACAGAGATAAGGAGCGTTACATGA
AGGAACTGGAGCAGTATCAGAAGACCGAGGCCCTACAAGTCTTCAGTAGGAAAACACAGGACCGTCAGAA
AGGCAAACTCATAGGCAAGATGCAGCCCGACAGGCCACTCATGATCATGAGAAAGAAACAGAGGTAAGG
GAACGCTCTGTTTTGATATCCCTATATTTACCGAAGAATTCTGAACCACAGCAAAGCTCGTGAGGCAG
AGCTCCGCCAGCTTCGTAATCCAACATGGAGTTTGAAGAGAGGAACGCAGCCCTACAGAAGCACGTGGA
GAGCATGCGCACAGCAGTGGAGAAGCTGGAGGTTGACGTGATCCAGGAGCGGAGCCGAAACACCGTCCTT
CAGCAGCACCTGGAGACCCTGCGGCAGATGTTGACCAGCAGCTTCGCCAGCATGCCCTTGCCCTGGAAGTG
GAGAAATACCAACAGTGGACACCATTTGACTCATACATGAACAGATTGCACAGTATAATTTGACTAATCC
CCAAGACAACGAAAACCTCATAGCTACAGTCCGAGAGGTTGTGAACAGGCTTGATCGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205225 representing NM_025812
 Red=Cloning site Green=Tags(s)

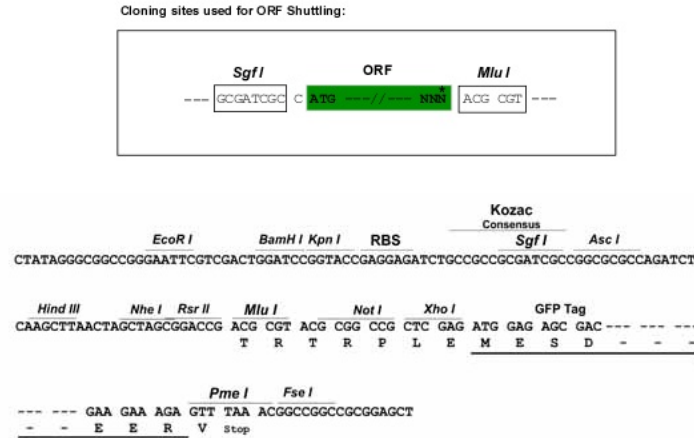
MESLMASSTLPLPLFADEDGSKESNDLATSGLTHPEGPYGSAASTTNPEFVEDLSQGQLLQSEASNAVEG
 NEQRPEDEQRSKRGGWSKGRKRRKPLRDSNAPKSPLTGYVRFMNERREQLRAKRPEVFPPEITRMLGNEW
 SKLPPEEKQRYLDEADRDKERYMKELEQYQKTEAYKVF SRKTQDRQKGKSHRQDAARQATHDHEKETEVK
 ERSVFDIPIFTEEFLNHASKAREALRQLRKSNMFEERNAALQKHVESMRTAVEKLEVDVIQERSRNTVL
 QQHLETLRQMLTSSFASMLPGSGEIPVDTIDSYMNRLHSIILANPQDNENFIATVREVVNRLDR

TRTRPLE - GFP Tag - V

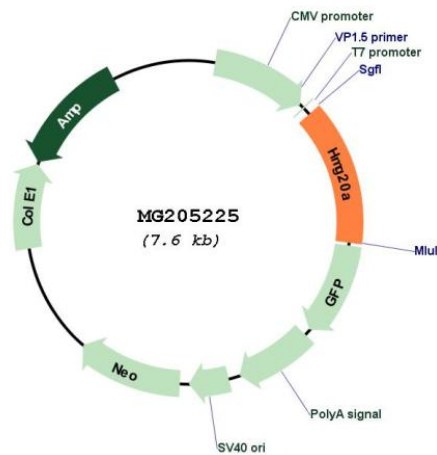
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_025812

ORF Size: 1038 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:	<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_025812.3
RefSeq Size:	3562 bp
RefSeq ORF:	1041 bp
Locus ID:	66867
UniProt ID:	Q9DC33
Cytogenetics:	9 B
Gene Summary:	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.[UniProtKB/Swiss-Prot Function]