

## Product datasheet for **MG224119**

### Hmg20b (NM\_010440) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hmg20b (NM_010440) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hmg20b
Synonyms:	AW610687; BRAF35; Hmgx2; Hmgxb2; Smarce1r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224119 representing NM_010440 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCCACGGTCCCCGGCAGCCAGGCGCAGCCACCGCACCTGCGGGAGGCAAGACTCCGGGCCAGCACG  
GGGCCTTTGTAGTGGCTGTCAAGCAGGAGCGCAGCGAGGGTTCCCGAGCTGGAGAGAAGGGGCCAGGA  
GGAGGAGCCAGTGAAGAAGCGAGGCTGGCCAAAGGCAAGAAAAGAAAGAAGATTCTCCAAATGGGCC  
AAGGCCCGTCACTGGCTATGTTTCGCTCCTGAATGAGAGCGGGAACAGATTCGCACCCGCCACCCGG  
ACCTTCCATTCCCGGAGATCACGAAGATGTTGGGCGCCGAGTGGAGCAAGCTGCAGCCGGCAGAGAAGCA  
GCGGTACCTGGATGAGGCAGAGAAGGAGAAACAGCAGTACTTGAAGGAGCTGTGGGCATACCAGCAGTCA  
GAGGCCTACAAGGTCTGCACTGAGAAGATTCAAGAAAACAAAATTAAGAAAGAGGACTCCAGTTCTGGGC  
TCATGAACACCCTCCTGAATGGGCACAAGGGTGTGGACTGCGATGGCTTTTCCACCTTTGATGTGCCAT  
CTTACGGAAAGATTTCTGGACAAAACAAAGCACGCGAGGCAGAGCTGCGGCGCCTGAGAAAGTGAAC  
GTGGCCTTCGAGGAGCAGAATGCGGTGCTGCAGCGCCACACGCAGAGCATGAGCAGCGCGCTGAGCGTC  
TGGAGCAGGAGTTGGCGCTGGAGGAGCGGCGCACACTGGCATTGCAGCAGCAACTACAGGCCGTGAGGCA  
GGCGCTCACCGCTAGCTTCGCTCCCTGCCGGTGCCCGGACCCGGGAGACACCGACCCTCGGGACGCTG  
GACTTTTACATGGCGCGCTTTCATGGAGCCATCGAGCGGACCCCGCGCAGCAGCAGAGACTGATCGCGC  
CGCTCAAGGAGATCCTGGCGCGGTAGCCAGCGACACCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224119 representing NM\_010440  
 Red=Cloning site Green=Tags(s)

MSHGPRQPGAATAPAGGKTPGQHGAFFVAVKQERSEGSRAGEKGPQEEEPVKKRGWPKGKKRKKILPNGP  
 KAPVTGYVRFNLNRRERQIRTRHPDLPFPEITKMLGAESKLPKAEKQRYLDEAEKEKQYKELWAYQQS  
 EAYKVCTEKIQENKIKKEDSSSGLMNTLLNGHKVDCDGFSTFDVPIFTEEFLDQNKAREELRRLRKMN  
 VAFEEQNAVLQRHTQSMSSARERLEQELALEERTLALQQQLQAVRQAL TASFASLPVPGTGETPTLGTL  
 DFYMARLHGAIERDPAQHERLIARVKEILARVASEHL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

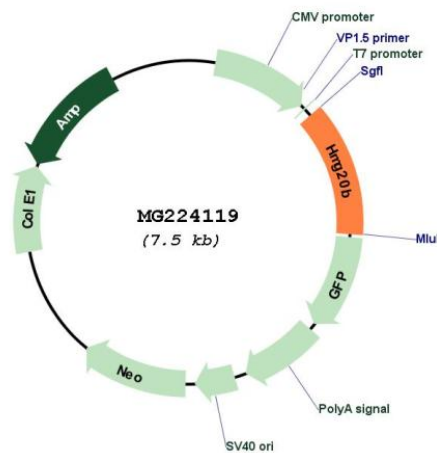
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_010440

**ORF Size:** 951 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_010440.3</a> , <a href="#">NP_034570.1</a>
<b>RefSeq Size:</b>	1644 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	15353
<b>UniProt ID:</b>	<a href="#">Q9Z104</a>
<b>Cytogenetics:</b>	10 39.72 cM
<b>Gene Summary:</b>	Required for correct progression through G2 phase of the cell cycle and entry into mitosis. Required for RCOR1/CoREST mediated repression of neuronal specific gene promoters (By similarity).[UniProtKB/Swiss-Prot Function]