

## Product datasheet for MR202372

### Hmg20b (BC003924) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hmg20b (BC003924) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hmg20b
Synonyms:	Smarce1r, Hmgx2, BRAF35
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR202372 representing BC003924 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTTGGGCGCCGAGTGGAGCAAGCTGCAGCCGGCAGAGAAGCAGCGGTACCTGGATGAGGCAGAGAAGG  
AGAAACAGCAGTACTTGAAGGAGCTGTGGGCATACCAGCAGTCAGAGGCCTACAAGTCTGCACTGAGAA  
GATTCAAGAAAACAAAATTA AAAAAGAGGACTCCAGTTCTGGGCTCATGAACACCCTCCTGAATGGGCAC  
AAGGGTGTGGACTGCGATGGCTTTTCCACCTTTGATGTGCCATCTTACGGAAGAGTTTCTGGACCAA  
ACAAAGCACGCGAGGCAGAGCTGCGGCGCTGAGAAAGATGAACGTGGCCTTCGAGGAGCAGAATGCGGT  
GCTGCAGCGCCACACGCAGAGCATGAGCAGCGCGCTGAGCGTCTGGAGCAGGAGTTGGCCTGGAGGAG  
CGGCGCACACTGGCATTGCAGCAGCAACTACAGGCCGTGAGGCAGGCGCTCACGGCTAGCTTCGCCTCCC  
TGCCGGTGCCCGGCACCGGGGAGACACCGACCTCGGGACGCTGGACTTTTACATGGCGCGGCTTCATGG  
AGCCATCGAGCGGACCCCGCGCAGCAGAGACTGATCGCGCGCTCAAGGAGATCCTGGCGCGGTA  
GCCAGCGAGCACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202372 representing BC003924  
 Red=Cloning site Green=Tags(s)

MLGAWSKLPQAEKQRYLDEAEKEKQYKELWAYQQSEAYKVCTEKIQENKIKKEDSSSGLMNTLLNGH  
 KGVDCDGFSTFDVPIFTEEFLDQNKAREAELRRLRKMNVAFEEQNAVLQRHTQSMSSARERLEQELALEE  
 RRTLALQQQLQAVRQAL TASFASLPVPGTGETPTLGTLDYFYMARLHGAIERDPAQHERLIARVKEILARV  
 ASEHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

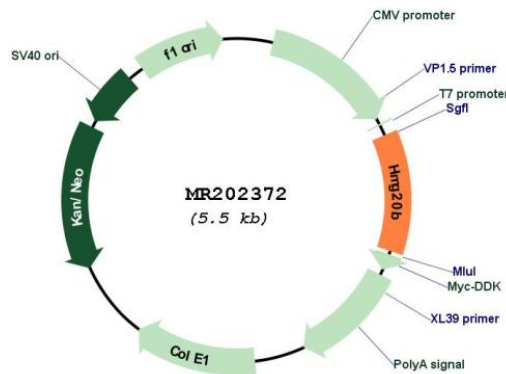
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:** BC003924

**ORF Size:** 645 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="#">BC003924.1</a>
<b>RefSeq Size:</b>	1545 bp
<b>RefSeq ORF:</b>	647 bp
<b>Locus ID:</b>	15353
<b>Cytogenetics:</b>	10 39.72 cM
<b>MW:</b>	56.7 kDa
<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]