

Product datasheet for **RR212959**

Hmgxb4 (NM_001107412) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmgxb4 (NM_001107412) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hmgxb4
Synonyms:	Hmg2l1; Hmgb2l1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR212959 representing NM_001107412
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTATGATGACTCCATGAAGAAAGAAGATTGCTTTGATGGTGATCACAGCTTTGAGGACATAGGAC
 TTGCAGCTGGCCGAAGCCAACGAGAAAAGAAGCGGTCTTACAAAGATTTCTTAAGGGAAGAGGAGGAAGT
 TGCTGCGCAGGTCAAGAGTTCTTCCAAGAAGAAGTCAAAGGACAGTGATCTGTTCTTCTGGGGACGGAC
 ACACACAAGAAGAAGAGGAAGCACTCCCCGATGATTTCTACTATGGAGACATTTGACTTTGGAATCAT
 CACAGAAGAAAAGAAGAAATCTAGTCCACAGTCTCCTGACACAGCAATGGACCTGTTGAAAGCTATCAC
 CTCCCCGTGGCAGCAGGGGCCAAGTCTCTAAGAAGGCAGGGGAGAAATCCTGCAGTCTTCAAGCCAT
 TCAGAGAGCAGAAAGAACACCACAAGAAGAAGGGCAACGGCAGCACTGGAGAGCCCTCCCTGGATGACA
 GCAATGCCCAAAACCCAAAAGAATGAAGCCATTGTACGTGAACACAGAGACGCTGACTCTCCGAGAGCC
 TGACGGCTTAAAGATGAGACTTATTCTCTACCAAAGGAGAAGGGGAGCAGCTCAGTGGAGGAGGAGCT
 TTTCAGTACCCTGCCCAACAGGCTTCTCTGAAGAAGCCCTCCAAGAAATTAGCTCGAGAAGCAAGGTG
 CTTTACTCCTAGGACACGAGCTACAGAGCTCCTAAAAACGGCCCGGAAGAAGCAAGTATCCTCGGA
 CTCGCACTCCTCTCCTGGCCAGAAGGCTGTGGTTCGGATGGCTCCCAGCTTCCAGAACCCACAGTGCC
 AATCTCGACATCACAGGGCTTGACCAATCCTAGTGGAGTCAGAGTCGTCTCAGCTGGGGAGCTGGAGG
 CCGGGGAGCTGGTGATAGACGACTCCTACAGGGAGATCAAGAAGAAGAAGTCAAAAAGAGCAAGAA
 GAAGAAGGACAAGGACAGACACAAGGAGAAGCGGCACTCCCGACCAAGAGGAGCTCTACCAGAGAGCAT
 GGCCTGCCCGAGAGCACATGCTGGTATCCAGCCCTGCCTCCAGTATCCCACCTGCCACTTCTGCTC
 TACACACAGACGGACATGGGGAGAAGAAGAAGAAAAGGAAAGAAAAGACAGAGAGAGAGAGGGGAGA
 AAAGCCGAAAAAGAAGAACATGTCTGCCTACCAGGTATTCTGTAAGGAATACCGGTAACCATTTGGCT
 GACCATCCAGGTATAGATTTTGGGAACTTAGTAAAAAATTGGCTGAAGTATGGAAGCAGTTGCCAGAAA
 AAGACAACTGATCTGGAAGCAAAGGCTCAGTATCTGCAGCACAAACAGAACAAAGCTGAAGCCACAAC
 TGTGAAAAGAAAAGCGTCCAGTGCAGAAGGCACCATGAAAGTCAGAGCTTCTTGTGGGAATACTTTCA
 CCCAAAAGAAGTCCCACCGACCACAATGCTTTTCCAGCCTCACAGCCAAAGCTCCTGAAACCGAGC
 CCATTGATGTCGCGCTCATCTCCAGTTGCTGGGAGAGTCCCTCAGCCTCATTGGACACCGCCTGCAGGA
 GACAGAGGGCATGGTAGCAGTGTCCGGAAGCTTGTGAGTCTCCTGGACTCCATTATCTGTGCTCTTGGC
 CCTTTGGCATGCCTGACCACAACTACCTGAAGTGAATGGCTGTCTAAACAGGCTTGAAGTTTGCTG
 TGAGGAACGGCACCCAGGAGAGGCCAAGGAAGGCATGTATCGTT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212959 representing NM_001107412
 Red=Cloning site Green=Tags(s)

MAYDDSMKKEDCFDGDHSEFIDIGLAAGRSQREKKRSYKDFLREEEVAAQVRSSSKKSKSDSLFFLGTD
 THKKRKHSPDDFYGDISTLESSQKKKKSSPQSPDTAMDLLKAITSPLAAGAKSSKAGEKSCSSSSH
 SESRKEHHKKKNGSTGEPPLDSSNAHKPKRMKPLYVNTETLTLREPDGLKMRLILSPKEKGSSVVEEEA
 FQYPAQQASLKKPSKKLAREEQGALLLGHQLSLLKTARKKHKSSSDSHSSPGPEGCGSDGSQLEPHSA
 NLDITGLDPIILVESESSAGELEAGELVIDDSYREIKKKKSKSKKKDKDRHKEKRHSRTKRSSTREH
 GTAREHMLVSSPASSIPTLPLALHTDGHGKKEKKEKDRERERERKEPKKKNMSAYQVFCKEYRVTIVA
 DHPGIDFGELSKKLAEVWKQLPEKDKLIWKQKAQYLQHKQNKAEATTVKRKASSAEGTMKVRASSVGILS
 PQKKSPTTMLLPASPAKAPETEPIDVAHLQLLGESLSLIGHRLQETEGMVAVSGSLVLLDLSIICALG
 PLACLTTQLPELNGCPKQVLKFAVRNGTQERPRKACIV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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_001107412.1 , NP_001100882.1
RefSeq Size:	2263 bp
RefSeq ORF:	1797 bp
Locus ID:	307667
Cytogenetics:	19p11
MW:	66.1 kDa