

Product datasheet for **RR212139**

Hmgb4 (NM_001109463) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hmgb4 (NM_001109463) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hmgb4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212139 representing NM_001109463
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAAAAAAGTCCAGCTAAGACCCAAGGTGAATGTCTCTTCTTACATCCATTTTATGATAAATTTCA
GAAACAAATTCAGGAGCAACAGCCAAACACCTACCTTACCTTTAACGAATTCCTAGAAGGTGTTTCAGA
AAAATGGAGTCCATCTCGAAAAATGAAAAGGCAAAGTTGAAGCCATAGCCAACTCGACAAAGCCCGG
TACCAGGAAGAAAATGATGAATTACGTGGGCAAGAGAAGAAAGAGAAGAAAGAGGGACCCATTGGCACCTC
GGAAGCCTCCATCCTCCTTCTGCTCTTCTCCCTGGACCACTTCGCCAAGCTGAAGCAAGAGAACCCCAA
CTGGACAGTGGTACAGGTGGCCAAGGCTGCCGGGAAGATGGTCCATGATTACAGATGTGGACAAAAGA
CCCTATGAACAGAAGGCCCAATTATGCGAGCAAAGTACTTCCAGGAGCGGGAGGCTACCTCAGCCAAT
GCCAGAACAGTAAGATCAACCTCCAGGGATCGTCCAAAAGCAGTTTAAAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212139 representing NM_001109463
Red=Cloning site Green=Tags(s)

MGKKVQLRPKVNVSYYIHFMINFRNKFKEQPNTYLTTFNEFSRRCSEKWRISISKNEKAKFEAIAKLDKAR
YQEEMNYYGKRRRKRDRDPLAPRKPPSSFLFLSLDHF AKLKQENPNWTVVQVAKAAGKMWSMITDVDKR
PYEQKAAIMRAKYFQEREAYLSQCQNSKINLQGSSKSSLKE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

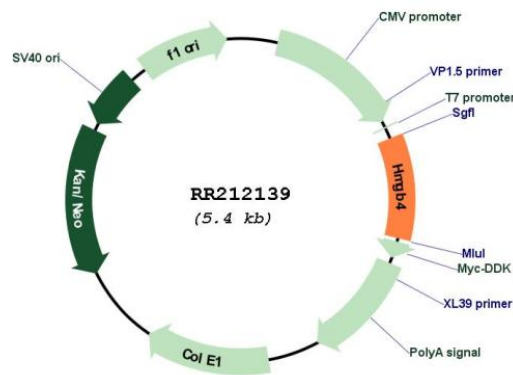


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001109463

ORF Size: 543 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:	<u>NM_001109463.1, NP_001102933.1</u>
RefSeq Size:	683 bp
RefSeq ORF:	546 bp
Locus ID:	685271
Cytogenetics:	5q36
MW:	21.5 kDa