

Product datasheet for **SC334563**

HMG4 (HMGB3) (NM_001301231) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HMG4 (HMGB3) (NM_001301231) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMGB3
Synonyms:	HMG-2a; HMG-4; HMG2A; HMG4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001301231, the custom clone sequence may differ by one or more nucleotides

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ATGCAAAGGATGGAAATACTTCCTGCGCGTAAGCGCAATCCTTTTCATCATTCTGAATCAGGATGGCTAAAG
GTGACCCCAAGAAACCAAGGGCAAGATGTCCGCTTATGCCTTCTTTGTGCAGACATGCAGAGAAGAACA
TAAGAAGAAAAACCCAGAGGTCCCTGTCAATTTTTCGCGAATTTTCCAAGAAGTGCCTGAGAGGTGGAAG
ACGATGTCCGGGAAAGAGAAATCTAAATTTGATGAAATGGCAAAGGCAGATAAAGTGCCTATGATCGGG
AAATGAAGGATTATGGACCAGCTAAGGGAGGCAAGAAGAAGAAGGATCCTAATGCTCCCAAAAGGCCACC
GTCTGGATTCTTCTGTCTGTTTCAGAATTCGCCCAAGATCAAATCCACAACCCCGGCATCTCTATT
GGAGACGTGGCAAAAAGCTGGGTGAGATGTGGAATAATTTAAATGACAGTGAAGCAGCCTTACATCA
CTAAGGCGCAAAGCTGAAGGAGAAGTATGAGAAGGATGTTGCTGACTATAAGTCGAAAGGAAAGTTTGA
TGGTGCAAAGGTCTGCTAAAGTTGCCCGAAAAAGGTGGAAGAGGAAGATGAAGAAGAGGAGGAGGAA
GAAGAGGAGGAGGAGGAGGAGGATGAATAA
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001301231
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:

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_001301231.1](#), [NP_001288160.1](#)

RefSeq Size: 3606 bp

RefSeq ORF: 663 bp

Locus ID: 3149

UniProt ID: [O15347](#)

Cytogenetics: Xq28

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of a family of proteins containing one or more high mobility group DNA-binding motifs. The encoded protein plays an important role in maintaining stem cell populations, and may be aberrantly expressed in tumor cells. A mutation in this gene was associated with microphthalmia, syndromic 13. There are numerous pseudogenes of this gene on multiple chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

Transcript Variant: This variant (4) differs in the 5' UTR and initiates translation at an alternate upstream start codon, compared to variant 1. The encoded isoform (b) has a longer N-terminus than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.