

## Product datasheet for SC110044

### HMGN3 (NM\_138730) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HMGN3 (NM_138730) Human Untagged Clone
Tag:	Tag Free
Symbol:	HMGN3
Synonyms:	PNAS-24; PNAS-25; TRIP7
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110044 sequence for NM_138730 edited (data generated by NextGen Sequencing)

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ATGCCGAAGAGAAAGTCTCCAGAGAATACAGAGGGCAAAGATGGATCCAAAGTAACTAAA
CAGGAGCCCAAGACGCTGTGCCAGATTGTACGCGAAACCTGCTCCACCAAAACCTGAA
CCCAAACCAAGAAAAACATCTGCTAAGAAAGAACCTGGAGCAAAGATTAGCAGAGGTGCT
AAAGGGAAGAAGGAGGAAAAGCAGGAAGCTGGAAGGAAGGCACAGAAAACCTGA
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Clone variation with respect to NM\_138730.2

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_138730 unedited GTAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGTCGTTCCCTGCGCGTG AGCAGCTGCAGCGGCAGAGGCAGCATCCAGCGGCGGCCAGCAGTTCCAGTCCGTTGCT TTACTTTTTGCTTACCAGACATAGTCATTATGCCGAAGAGAAAAGTCTCCAGAGAATACAG AGGGCAAAGATGGATCCAAAGTAACTAAACAGGAGCCCAAGACGGTCTGCCAGATTGT CAGCGAAACCTGCTCCACCAAAACCTGAACCAAAACCAAGAAAAACATCTGCTAAGAAAG AACCTGGAGCAAAGATTAGCAGAGGTGCTAAAGGGAAGAAGGAGGAAAAGCAGGAAGCTG GAAAGGAAGGCACAGAAAACCTGAATCTGTAGATAACGAGGGAGAATGAATTGTCATGAAA AATTGGGGTTGATTTTATGTATCTCTTGGGACAACCTTTTAAAAGCTATTTTACCAAGTA TTTTGTAATGCTAATTTTTTAGGACTCTACTAGTTGGCATAACGAAAATATATAAGGATG GACATTTTATCGTCTCATAGTCATGCTTTTTGGAAATTTACATCATCCTCAAGTAAAATA AATATCAGTTAAATATTGGAANGCTGTGTGAAGATTGATTTCAGCATTCCATGCACCTTGC TTTAAATTTAGTCTGTGCATACTGGNNGGTGTTNTACTGTGCATATTTGAAATTTTC ATGCAGTTTTTCTAGAGCATATCAGTGGTGCTTTTGACCTAGTTTTTATGTGATTTTAT GAACTGGATATNGTTGGGGCCACTGCTGACATTTTTGTGGTTAAATAAAAGGTTTTACTT GTCTGCAAAAAAAAAAACTCATTCTGATTGGGGCGCGGTCATAACTGTTCTGAAAATA ACCGGTGGACATCCTGGGACCCC
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_138730 unedited TTTAAGGTCTACTATGNACCGCGCCGCAATCTANGATCGATTTTTTTTTTTTTTTTTTTGCG AGACAAGTAAACCTTTTATTTAAACCACAAATAGTCAGCAGGTGGCCACAACACTATCCAT GTTTCATTAATAACACATAAAACCTAGGTACAAAAGCACCAGTATTGCTCTAGAAA AACTGCATGAAAAATCAAATATGCACAGTAAAAACCCACAGTATGCACAGGACTAAAT TTTAAAGCAAGTGCATGGAATGCTGAATCAATCTTACACACAGCTCCAATATTTAACTG ATATTTATTTTACTTGAGGATGATGTAATTTCCAAAAAGCATGACTATGAGACGATAAA ATGTCATCCTTATATATTTTCGTATGCCAACTAGTAGAGTCCTAAAAAATTAGCATTTA CAAATACTTGGTAAAAATAGCTTTTAAAAAGTTGTCCCAAGAGATACATAAAATCAACCC CAATTTTTCATGACAATTCATTCTCCCTCGTTATCTACAGATTGAGTTTTCTGTGCCCTTC CTTCCAGCTTCTGCTTTTCTCCTTCTCCCTTAGCACCTCTGCTAATCTTTGCTCC AGGTTCTTTCTTAGCAGATGTTTTCTTGGTTTGGGTTCAAGTTTTGGTGGAGCAAGTTT CGCTGACAATCTGGCAGACCGTCTTGTGGGCTCCTGTTTAGTTACTTTGGATCCATCTTT GCCCTCTGTATTCTCTGGAGACTTCTCTCGGCATAATGACTATGTCGGTGAAGCAAAA AGTAAAGCAACGGACTGGAAGTCTGCGCCGCCGCTGGATGCTGCTCTGCCGCTGCAN CTGCTCACGCGCAGGGAACGACCCTCGT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_138730
<b>Insert Size:</b>	800 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">NM_138730.1</a></u> , <u><a href="#">NP_620058.1</a></u>
<b>RefSeq Size:</b>	899 bp
<b>RefSeq ORF:</b>	234 bp
<b>Locus ID:</b>	9324
<b>UniProt ID:</b>	<u><a href="#">Q15651</a></u>
<b>Cytogenetics:</b>	6q14.1
<b>Domains:</b>	HMG14_17
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

The protein encoded by this gene binds thyroid hormone receptor beta in the presence of thyroid hormone. The encoded protein, a member of the HMGN protein family, is thought to reduce the compactness of the chromatin fiber in nucleosomes, thereby enhancing transcription from chromatin templates. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. There is a related pseudogene on chromosome 1. [provided by RefSeq, Jan 2016]

Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, which results in a frameshift, compared to variant 1. The resulting isoform (b) is shorter and has a distinct C-terminus compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.