

## Product datasheet for **RG211137**

### **HMG2L1 (HMGXB4) (NM\_005487) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HMG2L1 (HMGXB4) (NM_005487) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HMG2L1
Synonyms:	high-mobility group protein 2-like 1; HMG2L1; HMGBCG; HMG box domain containing 4; OTTHUMP00000028778; THC211630
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG211137 representing NM\_005487  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACCTGTTGAAAGCTATCACTTCCCCACTGGCAGCAGGCTCCAAGCCCTCCAAAAGACTGGGGAGA  
 AATCCTCTGGCTCTTCAAGCCATTTCGGAGAGTAAAAAGGAGCACACAGGAAGAAAGTCAGTGGAAGCAG  
 TGGGGAATACCCTAGAGGATGGTGTCTCCACAAAATCGAAAAAATGAAACCTCTCTATGTGAACACA  
 GAGACTGACCTTCGGGAGCCTGATGGTTTAAAAATGAACTTATTCTGTACCAAAGGAGAAGGGAA  
 GCAGCTCTGTTGATGAGGAGTCTTTTCAATATCCCTCCCAACAAGCGACTGTGAAAAATCCTCAAAGAA  
 ATCAGCTCGGGATGAGCAGGGTCTTTACTCCTAGGACATGAGTTACAGAGCTTTCTGAAAAACAGCCCG  
 AAAAGCACAAAGTCATCCTCAGACGCACATTATCTCTGGCCCTGAAGGCTGTGGGTCTGACGCCCTCC  
 AGTTCGCAGAGTCCCACAGTCTAACCTTGATCTTTAGGGCTTGAACCTATTCTGGTAGAATCAGACTC  
 ATCCTCTGGTGGGAACTAGAGGCTGGGGAGTTAGTGATAGATGATTCTTACCGAGAAATCAAGAAGAAA  
 AAGAAGTCAAAGAAGAGCAAAAAGAAGAAAGACAAGGAGAAGCATAAAGAGAAGCGACACTCCAAGTCCA  
 AGAGAAGTTTAGGACTTTCTGCCGTGCCAGTGGGAGAGGTCACAGTGACATCTGGCCCTCCTCCAGCAT  
 CCCATACGCTGGAGCAGCAGCACCTCCCCTGCCACTTCTGGCCCTCCACACAGATGGGCATAGTAAAAA  
 AAAAAGAAAAAAGAAGAGAAGGACAAAGAGAGAGAGAGAGAGAGAAAGCCAAAAAAGAAGAACATGTCGG  
 CCTACCAGGTGTTCTGTAAAGAGTATCGCGTGACCATTGTGGCTGACCATCCAGGTATAGATTTGGGGA  
 ACTTAGTAAAAACTGGCTGAGGTGTGGAAGCAATTACCAGAAAAAGACAACTGATTTGGAAGCAAAAA  
 GCTCAGTATCTGCAGCACAAACAGAACAAGCAGAAGCCACAACGTGAAAAGGAAAGCATCCAGCTCAG  
 AAGGTTCCATGAAAGTCAAAGCCTCTTCTGTAGGAGTACTGTACCCCGAAGAAGTCCCACCCACCAC  
 CATGCTGTTACCAGCCTCACCAGCCAAAGCCCCTGAGACAGAGCCATTGATGTTGCTGCTCATCTTCAG  
 CTGTTGGGAGAGTCCCTAAGCCTCATTGGACACCGTCTGCAGGAACTGAGGGTATGGTGGCTGTGTCTG  
 GCAGTTTGTGAGTCTTCTGGATTCCATTATCTGTGCCCTTGGCCCTTGGCATGTCTCACCACACAACT  
 ACCTGAATTGAATGGCTGTCCCAACAGGTCTTGTCAAACACATTAGACAACATTGCTTACATCATGCC  
 GGACTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG211137 representing NM\_005487  
 Red=Cloning site Green=Tags(s)

MDLLKAITSPLAAGSKPSKKTGEKSSGSSSHSESKKEHHRKVKVSGSSGELPLEDGVSHKSKMKPLYVNT  
 ETLTLREPDGLKMKLILSPKEKGSSSVDEESFYPSQQATVKKSSKKSARDEQGALLLGHELQSFLKTAR  
 KKHKSSSDAHSSPPEGCGSDASQFAESHANLDL SGLPEILVESDSSSGGELEAGELVIDDSYREIKKK  
 KKS KSKSKKKKDKKEKHKEKRHSKSKRSLGLSAVPVGEVTVTSGPPPSIPYAGAAAPPLPLPGLHTDGHSEK  
 KKKKKEEKDKERERGEKPKKKNMSAYQVFCKEYRVTIVADHPGIDFGELSKKLAEVWKQLPEKDKLIWKQK  
 AQYLQHKQNKAEATTVKKRASSSEGSMSKVKASSVGVLSPPKSPPTMMLLPASPAKAPETEPIDVAHLQ  
 LLGESLSLIGHRLQETEGMVAVSGSLSVLLDSIICALGPLACLTTQLPELNGCPKQVLSNTLDNIAYIMP  
 GL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_005487

**ORF Size:** 1476 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:**

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\\_005487.3](#), [NP\\_005478.2](#)

**RefSeq Size:** 4220 bp

**RefSeq ORF:** 1478 bp

**Locus ID:** 10042

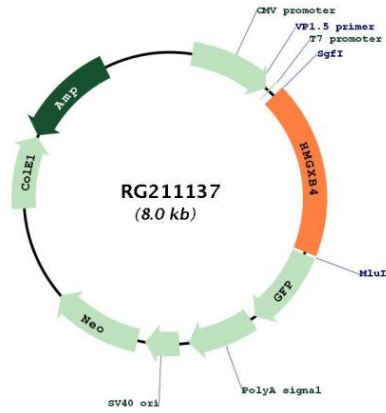
**Cytogenetics:** 22q12.3

**Protein Families:** Transcription Factors

**Gene Summary:**

High mobility group (HMG) proteins are nonhistone chromosomal proteins. See HMG2 (MIM 163906) for additional information on HMG proteins.[supplied by OMIM, Nov 2010]

**Product images:**



Circular map for RG211137