

## Product datasheet for **MG210012**

### **Hbs1l (BC010251) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hbs1l (BC010251) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hbs1l
Synonyms:	2810035F15Rik; AI326327; eRFS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210012 representing BC010251  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCCGGCATCGAACGTCCGGGGATATAACTACGATGAAGATTTTGAAGATGATGATCTGTATGGC  
 AGTCTGTGGAGGATGACTACTGTATCTCACCATCAACAGCCGCTCAGTTCATTTACTCACGCCGTGACAA  
 CCCTGAAGAAGAATATGGCTATGAAGATCTGAGAGAGTCTTCTAATTCTCTTTTGAATCACCAATTAAGT  
 GAAATTGACCAAGCTCGCCTGTATTTCATGCCTTGATCACATGAGAGAGGTAAGTGGGGGACGCTGTGCCTG  
 ATGACATACTGACTGAGGCAATTCTGAAACACAAATTTGATGTGACAGAGGCTTTGTCCGTGGTTCTGGA  
 ACAAGATGGTGTGCAGCCTTGAAGGAGAAGAGTGAGCGAGCAGTGTGTGCAGGACAGCCTTCAAAAGGA  
 AAATCAGTTATATCTCGTCCATCCAGAGTGAATCTGAAATTGTGCCAAAAGTTGCTAAAATGACTGTAT  
 CCGGGAAGAAGCAGACCATGGGATTTGAAGTGCCTGGCTTAACCTCTGAGGAAAAAGGACTCAGTGTGCC  
 CGCTCCTCACAAGGGCCTCCTGGTGTATGTGAGCGTAGCTTCTCCTAACATTCTGAGACCGGCACT  
 CCAAAATCTGCCCTCCACCTCCTTCCCTTCAAACATCAGAAGAGCTGGGCTCCACTCCGACACCACTGA  
 GAAAGTCTGGCAAGCTGAGGCAGCAGATAGACGTGAAAGCGGAATTGGAAAAGCGCAGGGCGGGAAGCA  
 GCTCCTCAACTTAGTGGTCATTGGTTCATGTTGATGCTGGGAAAAGTACTCTGATGGGCCATATGCTTTAT  
 CTTCTGGGTAATGTAAACAAAAGAACTATGCATAAGTATGAGCAAGAATCTAAAAAGGCTGGCAAGGCTT  
 CATTGTCATATGCGTGGGCTTTGGATGAACTGGAGAAGAAAGGGAAAGGGGAGTAACAATGGACGTCGG  
 AATGACGAAGTTTGAACCACAACCAAGTTATTACCTTAATGGATGCTCCAGGCCATAAGGATTTTCATT  
 CCAAACATGATCACAGGAGCAGCCAGGCCGATGTCGCTGTCTGGTGTGATGCCAGCAGAGGAGAGT  
 TTGAAGCTGGATTTGAGACGGGAGGACAGACCCGAGAGCATGGCCTTTTGGTCCGATCTCTTGGAGTGAC  
 ACAGCTTGCTGTGGCTGTCAATAAGATGGATCAGGTAAATTGGCAACAAGAAAGATTTCAAGAGATTACT  
 GGAAAACCTCGGGCACTTTCTTAAGCAAGCAGGTTTTAAGGAGAGTGTAGCTTTTATCCCGACGAGCG  
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 CTTATTGGAGCAGATTGATTCCTTCAAGCCCCCTCAGCGCTCGATTGACAAACCTTTTAGATTATGTGTG  
 TCTGATGTCTTCAAAGATCAAGGATCTGGCTTTTGTGACTGGTAAAATTGAAGCTGGTTATATCCAGA  
 CTGGTGACCGACTGTTAGCCATGCCACCAATGAAACCTGTACTGCTAAAGGAATCACTCTGCACGATGA  
 GCCTGTGATTGGGCAGCAGCAGCGGATCACGTAATCTTACCTTGGTTGGGATGGACATCATCAAATC  
 AATGTGCGCTGCATATTTGTGCCCCCAAGAACCATTAAGGCTTGCACCCGCTTCAGAGCCCGAATCC  
 TCGTCTTCAATATTGAAGTTCGGATCACTAAAGGGTTTCTGTGCTGTTACACTACCAAACCGTCAGTGA  
 GCCTGCTGTTATTAAGCGATTGATTAGTGTCTAAACAAAAGTACTGGTGAAGTCACAAAGAAGAAGCCC  
 AAGTTGCTGACCAAGGGCCAGAACGCCTTGGTAGAGCTGCAGACACAAAGACCAGTGGCTCTTGAGCTCT  
 ACAAGACTTCAAGGAGCTGGGGCGTTTATGCTGCGTTATGGTGGCTCCACAGTAGCTGCCGGTGTGTG  
 CACTGAGATAAAAGAG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG210012 representing BC010251  
 Red=Cloning site Green=Tags(s)

```
MARHRNVRGYNDEDFEDDDL YGQSVEDDYCISPSTAAQFIYSRRDNPEEEYGYEDLRESSNSLLNHQLS
EIDQARLYSCLDHMREVLGDAVPDDILTEAILKHKFDVQKALSVVLEQDGVQPWKEKSERAVCAGQPSKG
KSVISRSSQSESEIVPKVAKMTVSGKKQTMGFVPLTSEENGLSVRAPHKGGPGDDVSVASPNIPETGT
PKSALPPPSLQTSEELGSTPTPVRKSGKLRQQIDVKAELEKRRQGGKQLLNLVVIGHVDAGKSTLMGHMLY
LLGNVNRKRTMHKYEQESKKAGKASFAYAWLDETGEERERGVTMDVGMTKFETTTKVITLMDAPGHKDFI
PNMITGAAQADVAVLVVDASRGEFEAGFETGGQTRHGLLVRS LGVTQLAVAVNKMDQVNWQQRFEQIT
GKLGHFLKQAGFKESDVAFIPTSGLSGENLTARSQSSDLTTWYKGMCLLEQIDSFKPPQRSIDKPFRLCV
SDVFKDQSGSFCVTGKIEAGYIQTGDRLLAMPNETCTAKGITLHDEPVDWAAAGDHVNLTLVGMIDIKI
NVGCIFCAPKEPIKACTRFRARILVFNIEVPITKGFVLLHYQTVSEPAVIKRLISVLNKSTGEVTKKKP
KLLTKGQNALVELQTRPVALELYKDFKELGRFMLRYGGSTVAAGVVTEIKE
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** BC010251

**ORF Size:** 2048 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:** [BC010251](#), [AAH10251](#)

**RefSeq Size:** 2742 bp

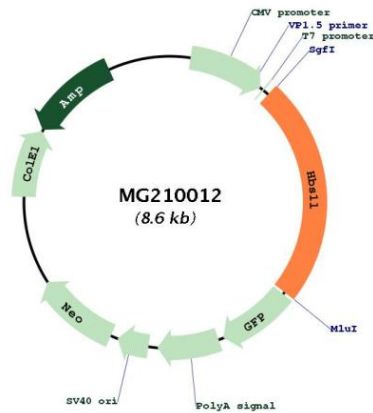
**RefSeq ORF:** 2048 bp

**Locus ID:** 56422

**Cytogenetics:** 10 A3

**Gene Summary:** Cotranslational quality control factor involved in the No-Go Decay (NGD) pathway. In the presence of ABCE1 and PELO, is required for 48S complex formation from 80S ribosomes and dissociation of vacant 80S ribosomes. Together with PELO and in presence of ABCE1, recognizes stalled ribosomes and promotes dissociation of elongation complexes assembled on non-stop mRNAs; this triggers endonucleolytic cleavage of the mRNA, a mechanism to release non-functional ribosomes and to degrade damaged mRNAs as part of the No-Go Decay (NGD) pathway.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG210012