

## Product datasheet for **MR217936**

### **Hbs1l (NM\_001042593) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hbs1l (NM_001042593) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hbs1l
Synonyms:	2810035F15Rik; AI326327; eRFS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR217936 representing NM\_001042593  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCCGCATCGAACGTCCGGGGATATAACTACGATGAAGATTTTGAAGATGATGATCTGTATGGC  
 AGTCTGTGGAGGATGACTACTGTATCTCACCATCAACAGCCGCTCAGTTCATTTACTCACGCCGTGACAA  
 CCCTGAAGAAGAATATGGCTATGAAGATCTGAGAGAGTCTTCTAATTCTTTTTGAATCACCAATTAAGT  
 GAAATTGACCAAGCTCGCTGTATTTCATGCCTTGATCACATGAGAGAGGTAAGTGGGGGACGCTGTGCCTG  
 ATGACATACTGACTGAGGCAATTCTGAAACACAAATTTGATGTGCAGAAGGCTTTGTCCGTGGTTCTGGA  
 ACAAGATGGTGTGCAGCCTTGAAGGAGAAGAGTGAGCGAGCAGTGTGTGCAGGACAGCCTTCAAAAGTT  
 ATATCTCGGTATCCCAGAGTGAATCTGAAATTTGCCAAAAGTTGCTAAAATGACTGTATCCGGGAAGA  
 AGCAGACCATGGGATTTGAAGTGCCTGGCTTAACCTTCTGAGGAAAATGGACTCAGTGTGCGCGCTCTCA  
 CAAAGGGCTCCTGGTGTGATGTGAGCGTAGCTTCTCCTAACATTCTGAGACCGGCACCTCAAAAATCT  
 GCCTCCACCTCCTTCCCTTCAAACATCAGAAGAGCTGGGCTCCACTCCGACACCAAGTGAAGAAAGTCTG  
 GCAAGCTGAGGCAGCAGATAGACGTGAAAGCGGAATTGAAAAAGCGGCAGGGCGGGAAGCAGCTCCTCAA  
 CTTAGTGGTCATTGGTCACTGTTGATGCTGGGAAAAGTACTCTGATGGCCATATGCTTTATCTTCTGGGT  
 AATGTAACAACAAAGAAGTATGCATAAGTATGAGCAAGAATCTAAAAGGCTGGCAAGGCTTCATTTGCAT  
 ATGCGTGGGTCTTGGATGAAACTGGAGAAGAAAGGAAAGGGGAGTAACAATGGACGTCCGAATGACGAA  
 GTTTGAAACCACAACAAAGTTATTACCTTAATGGATGCTCCAGGCCATAAGGATTTTATTCCAAACATG  
 ATCACAGGAGCAGCCAGGCCGATGTCGCTGCTGGTGGTGTGATGCCAGCAGAGGAGAGTTTGAAGCTG  
 GATTTGAGACGGGAGGACAGACCCGAGAGCATGGCCTTTTGGTCCGATCTCTTGGAGTGACACAGCTTGC  
 TGTGGCTGTCAATAAGATGGATCAGGTAATTTGGCAACAAGAAAGATTTCAAGAGATTACTGAAAACTC  
 GGGCACTTTCTTAAGCAAGCAGGTTTTAAGGAGAGTGATGTAGCTTTTATCCCGACGAGCGGTCTGAGTG  
 GTGAGAATTTAACCGCAAGGTACAGTCCAGTGACCTCACGACGTGGTACAAAGGGATGTGCTTATTGGA  
 GCAGATTGATTCCTTCAAGCCCCCTCAGCGCTCGATTGACAAAACCTTTTAGATTATGTGTGTCTGATGTC  
 TTCAAAGATCAAGGATCTGGCTTTTGTGTGACTGGTAAAATTGAAGCTGGTTATATCCAGACTGGTGACC  
 GACTGTTAGCCATGCCACCCAATGAAACCTGTACTGCTAAAGGAATCACTCTGCACGATGAGCCTGTGCA  
 TTGGGCAGCAGCAGCGGATCACGTAATCTTACCTTGGTTGGGATGGACATCATCAAATCAATGTCGGC  
 TGCATATTTTGTGGCCCAAGAACCATTAAAGCTTGCACCCGCTTCAAGAGCCGAATCCTCGTCTTCA  
 ATATTGAAGTTCCGATCACTAAAGGGTTTTCTGTGCTGTTACACTACCAACCGTCAGTGAGCCTGCTGT  
 TATTAAGCGATTGATTAGTGTCTTAAACAAAAGTACTGGTGAAGTCAAAAGAAGAGCCCAAGTTGCTG  
 ACCAAGGGCCAGAAGCCTTGGTAGAGCTGCAGACACAAAGACCAGTGGCTCTTGAGCTCTACAAAGACT  
 TCAAGGAGCTGGGGCGGTTATGCTGCGTTATGGTGGCTCCACAGTAGCTGCCGGTGTGTCACTGAGAT  
 AAAAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR217936 representing NM\_001042593  
Red=Cloning site Green=Tags(s)

MARHRNVRGYNVDEDFEDDDL YGQSVEDDYCISPSTAAQFIYSRRDNPEEEYGYEDLRESSNSLLNHQLS  
 EIDQARLYSCLDHMREVLGDAVPDDILTEAILKHKFDVQKALSVLEQDGVQPWKEKSERAVCAGQPSKV  
 ISRSSQSESEIVPKVAKMTVSGKKQTMGFVPLTSEENGLSVRAPHKGPDDVSVASPNIPETGTPKS  
 ALPPPSLQTSSEELGSTPTPVRKSGKLRQQIDVKAELKQGGKQLLNLVVI GHVDAGKSTLMGHMLYLLG  
 NVNKRTHMKYEQESKKAGKASFAYAWVLDETGEERERGVMTDVGMTKFETTTKVITLMDAPGHKDFIPNM  
 ITGAAQADVAVLVVDASRGEFEAGFETGGQTRHGLLVRS LGVTQLAVAVNKMDQVNWQERFQEITGKL  
 GHFLKQAGFKESDVAFIPTSGLSGENLTARSQSSDLTTWYKGMCLLEQIDSFKPPQRSIDKPFRLCVSDV  
 FKDQSGSFCVTGKIEAGYIQTGDRLLAMPNETCTAKGITLHDEPVDWAAAGDHVNLTLVGM DIIKINVG  
 CIFCGPKEPIKACTRFRARILVFNI EVPITKGFVLLHYQTVSEPAVIKRLISVLNKSTGEVTKKKPKLL  
 TKGQNALVELQTQRPVALELYKDFKELGRFMLRYGGSTVAAGVVEIKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001042593

**ORF Size:** 2037 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\\_001042593.1](#), [NP\\_001036058.1](#)

**RefSeq Size:** 2784 bp

**RefSeq ORF:** 2040 bp

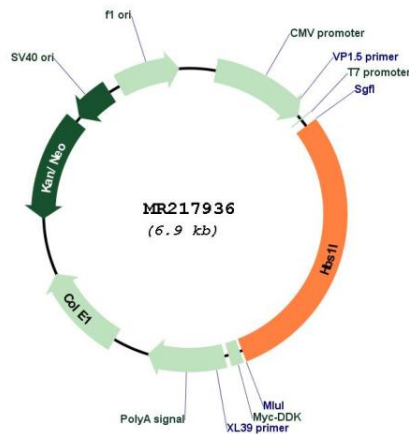
**Locus ID:** 56422

**Cytogenetics:** 10 A3

**MW:** 75.3 kDa

**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 MR217936