

## Product datasheet for **RC208125**

### **HBS1L (NM\_006620) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HBS1L (NM_006620) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HBS1L
Synonyms:	EF-1a; eRF3c; ERFS; HBS1; HSPC276
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC208125 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCCGCATCGGAATGTTTCGAGGCTATAACTACGATGAAGATTTGAAGATGATGATCTCTACGGCC  
 AGTCTGTAGAGGATGATTATTGTATTTCCCGTCAACAGCTGCTCAGTTTATTTATTCACGGCGTGACAA  
 ACCTTCCGTTGAGCCTGTGGAAGAATATGATTATGAAGATCTGAAAGAATCTTCCAATTCTGTTTCAAAC  
 CATCAGCTCAGTGGATTTGATCAAGCTCGTCTTTATTCATGCCTTGATCACATGAGAGAGGTAAGTGGAG  
 ATGCTGTGCCAGATGAAATATTAATTGAAGCAGTTCTGAAGAACAAGTTTGATGTGCAGAAGGCTTTGTC  
 AGGGGTTCTGGAACAAGATAGAGTGCAGAGTTTGAAGGACAAGAATGAGGCAACAGTATCTACAGAAAAG  
 ATAGCAAAGGAAAACAGTAGATTCCCAGACATCGCGAAGTGAATCTGAAATTTGCCAAAAGTTGCTA  
 AAATGACTGTATCTGAAAGAAGCAAATATGGGATTTGAAGTGCCTGGAGTATCTTCTGAAGAAAATGG  
 TCATAGTTTCCACACACCTCAAAAAGACCGCCATTGAAGATGCCATTGCTTCTCCGATGTTCTTGAG  
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 CCGTGAAAAAGTCTGGCAAGCTGAGGCAGCAAATAGATGTGAAGGCGGAACTGGAGAAGCGGCAAGGAGG  
 GAAGCAGCTACTCAACTAGTGGTCATTGGTCATGTTGATGCTGGGAAAAGTACTCTGATGGGCCATATG  
 CTTTATCTTCTGGGTAATATAAACAAAAGAAGTATGCATAAGTATGAACAGGAGTCTAAAAGGCTGGCA  
 AAGCTTCGTTTGATATGCATGGGTCTTGGATGAAACTGGCGAAGAAAGGGAAAGGGGAGTAACCATGGA  
 TGTTGGTATGACAAAGTTTGAACCACAACCAAGTTATTACATTAATGGATGCTCCAGGCCATAAGGAC  
 TTCATTTCAAATATGATTACAGGAGCAGCCAGCGGATGTAGCTGTTTTAGTTGATAGCCAGCAGGG  
 GAGAGTTTGAAGCTGGATTTGAGACTGGAGGACAAACACGAGAGCATGGACTCTTGGTCCGTTCTCTGGG  
 AGTGACGCAGCTTGCAGTTGCAGTTAATAAAAATGGATCAGGTTAATTGGCAACAAGAAAGGTTTCAAGAG  
 ATTAAGTGAAGAACTTGGGCACTTTCTTAAGCAAGCAGGTTTTAAGGAGAGTGTAGTGGTTTTATTCTTA  
 CAAGTGGTCTCAGTGGTGAAGTCTAATCACAAGATCTCAGTCAAGTGAAGTCAAAAAATGGTATAAAGG  
 ACTATGTTTATTAGAACAATGATTCTTTAAGCCTCCCGAGGATCTATTGACAAACCTTTTAGATTA  
 TGTGTGTCGATGTTTTCAAAGATCAAGGATCTGGATTTGCATAACTGGTAAAAATAGAAGCTGGTTATA  
 TCCAAACTGGTGACCGACTACTGGCAATGCCTCCTAATGAACTGTACCGTGAAGGAATCACTCTGCA  
 TGATGAACCTGTCGACTGGCGGCAGCAGCGGATCATGTTAGTCTTACTTTGGTTGGGATGGATATCATC  
 AAAATCAATGTTGGCTGCATATTTGTGGCCCAAAGTACCCATTAAGCTTGCCTCGTTTCAGAGCCC  
 GAATCCTCATCTTAATATTGAAATTCCTATCACTAAAGGATTTCTGTGCTGTTACACTACCAAAGTGT  
 CAGTGAACCCGCGTTATTAACGATTGATTAGTGTCTTAACAAAAGCAGCGGTGAAGTCAAAAAGAAA  
 AAGCCTAAGTTTTTACTAAAGGCCAGAATGCATTGGTAGAGCTACAGACACAAAGACCAATAGCTCTTG  
 AGCTATAAAGACTTTAAAGAGCTGGGAGGTTTCATGCTACGTTACGGTGGTCTACAATAGCTGCTGG  
 TGTTGTCAGTGAATAAAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC208125 protein sequence  
Red=Cloning site Green=Tags(s)

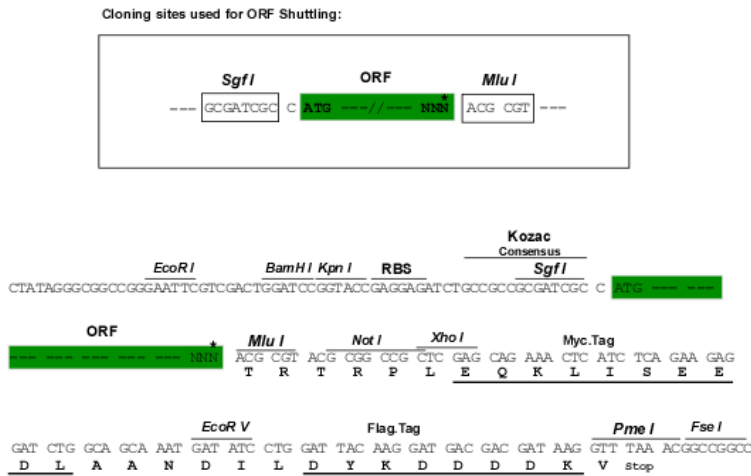
MARHRNVRGNYDEDFEDDDL YGQSVEDDYCISPSTAAQFIYSRRDKPSVEPVEEYDYEDLKESNSVSN  
 HQLSGFDQARLYSCLDHMREVLGDAVPDEILIEAVLKNKFDVQKALSGVLEQDRVQSLKDKNEATVSTGK  
 IAKGKPVDSQTSRSESEIVPKVAKMTVSGKKQTMGFEPVGSSEENGHSFHTPQKGPPIEDAIASSDVLE  
 TASKSANPPHTIQASEEQSSTPAPVKKSGKLRQQIDVKAELKRQGGKQLLNLVVIHVDAGKSTLMGHH  
 LYLLGNINKRTMHKYEQESKKAGKASFAYAWVLDETGEERERGVMTDVGMTKFETTTKVITLMDAPGHKD  
 FIPNMITGAAQADVAVLVVDASRGEFEAGFETGGQTRHGLLVRSLGVTQLAVAVNKMDQVNWQERFQE  
 ITGKLGHLKQAGFKESDVGFIPITSGLSGENLITRSQSSELTWKYKGLCLEQIDSFKPPQRSIDKPFRL  
 CVSDVFKDQGGSGFCITGKIEAGYIQTGDRLLAMPPNETCTVKGITLHDEPVDWAAAGDHVSLTLVGMDDI  
 KINVCIFCGPKVPIKACTRFRARILIFNIEIPITKGFVLLHYQTVSEPAVIKRLISVLNKSTGEVTKK  
 KPKFLTKGQNALVELQTRPIALELYKDFKELGRFMLRYGGSTIAAGVVTEIKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6509\\_b12.zip](https://cdn.origene.com/chromatograms/mk6509_b12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_006620

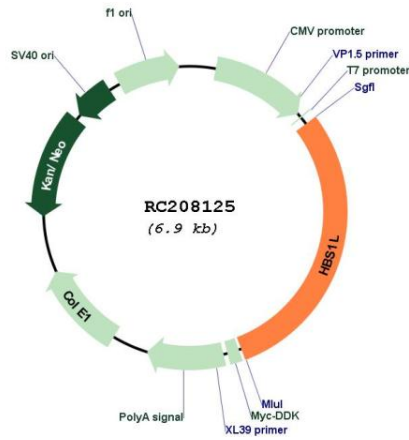
**ORF Size:** 2052 bp

**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](#)

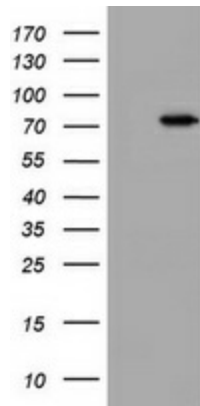
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_006620.4</a>
<b>RefSeq Size:</b>	7163 bp
<b>RefSeq ORF:</b>	2055 bp
<b>Locus ID:</b>	10767
<b>UniProt ID:</b>	<a href="#">Q9Y450</a>
<b>Cytogenetics:</b>	6q23.3
<b>Domains:</b>	GTP_EFTU, GTP_EFTU_D3, GTP_EFTU_D2
<b>MW:</b>	75.5 kDa
<b>Gene Summary:</b>	<p>This gene encodes a member of the GTP-binding elongation factor family. It is expressed in multiple tissues with the highest expression in heart and skeletal muscle. The intergenic region of this gene and the MYB gene has been identified to be a quantitative trait locus (QTL) controlling fetal hemoglobin level, and this region influences erythrocyte, platelet, and monocyte counts as well as erythrocyte volume and hemoglobin content. DNA polymorphisms at this region associate with fetal hemoglobin levels and pain crises in sickle cell disease. A single nucleotide polymorphism in exon 1 of this gene is significantly associated with severity in beta-thalassemia/Hemoglobin E. Multiple alternatively spliced transcript variants encoding different protein isoforms have been found for this gene. [provided by RefSeq, May 2009]</p>

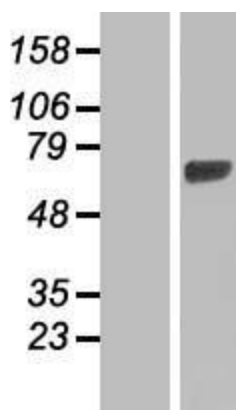
Product images:



Circular map for RC208125



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HBS1L (Cat# RC208125, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HBS1L (Cat# [TA800554]). Positive lysates [LY416509] (100ug) and [LC416509] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416509]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208125 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).