

Product datasheet for **SC326125**

HBS1L (NM_001145207) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HBS1L (NM_001145207) Human Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >SC326125 representing NM_001145207.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCCCGGCATCGGAATGTTTCGAGGCTATAACTACGATGAAGATTTTGAAGATGATGATCTCTACGGC
CAGTCTGTAGAGGATGATTATTGTATTTTCGCCGTCACACAGCTGCTCAGTTTATTTATTCACGGCGTGAC
AAACCTTCCGTTGAGCCTGTGGAAGAATATGATTATGAAGATCTGAAAGAATCTTCCAATTCGTTTCA
AACCATCAGCTCAGTGGATTTGATCAAGCTCGTCTTTATTCATGCCTTGATCACATGAGAGAGGTAATT
GGAGATGCTGTGCCAGATGAAATATTAATTGAAGCAGTTCTGAAGAACAAGTTTGTGTCAGAAAGGCT
TTGTCAGGGGTTCTGGAACAAGATAGAGTGCAGAGTTTGAAGGACAAGAATGAGGCAACAGTATCTACA
GGAAAGATAGCAAAGGAGTCTTATTTTCTTCTGAAGTTTCAGCTGATAATGTTCAAAGTCTTAT
CCTCAGTCAGCAAATCATTGGATTATAGTAGCAAACCTTTGATTTTGTAGCTCAGTAGGAAAATAC
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CTTTCAAAGAACCCTAGATGCCGATTTGTTGAGACCTCATGCATCTGAATGCATTTCCAAAGATGATTCT
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TGCAAGCGACGCACCCTTGACCTCTATAAGACTTTTCTTTATAGTAGACAAGTTCAAGATGTAAGGAC
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AAAGCTAATCAAAAAAAGCATTACTAGAGATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001145207
- Insert Size:** 1899 bp
- OTI Disclaimer:** 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001145207.1](#)

RefSeq Size: 2814 bp

RefSeq ORF: 1899 bp

Locus ID: 10767

UniProt ID: [Q9Y450](#)

Cytogenetics: 6q23.3

MW: 70.1 kDa

Gene Summary: 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]

Transcript Variant: This variant (3) uses an alternate exon for its 3' coding region and 3' UTR, compared to variant (1). This results in a protein (isoform 3) with a much shorter and distinct C-terminus, compared to isoform 1.