

Product datasheet for **RG208125**

HBS1L (NM_006620) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HBS1L (NM_006620) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HBS1L
Synonyms:	EF-1a; eRF3c; ERFS; HBS1; HSPC276
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG208125 representing NM_006620
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCGCATCGGAATGTTTCGAGGCTATAACTACGATGAAGATTTGAAGATGATGATCTCTACGGCC
 AGTCTGTAGAGGATGATTATTGTATTTCCCGTCAACAGCTGCTCAGTTTATTTATTCACGGCGTGACAA
 ACCTTCCGTTGAGCCTGTGGAAGAATATGATTATGAAGATCTGAAAGAATCTTCCAATTCTGTTTCAAAC
 CATCAGCTCAGTGGATTTGATCAAGCTCGTCTTTATTCATGCCTTGATCACATGAGAGAGTACTTGGAG
 ATGCTGTGCCAGATGAAATATTAATTGAAGCAGTTCTGAAGAACAAGTTTGATGTGCAGAAGGCTTTGTC
 AGGGGTTCTGGAACAAGATAGAGTGCAGAGTTTGAAGGACAAGAATGAGGCAACAGTATCTACAGAAAAG
 ATAGCAAAGGAAAACAGTAGATTCCCAGACATCGCGAAGTGAATCTGAAATTTGCCAAAAGTTGCTA
 AAATGACTGTATCTGAAAGAAGCAAATATGGGATTTGAAGTGCCTGGAGTATCTTCTGAAGAAAATGG
 TCATAGTTTCCACACACCTCAAAAAGACCGCCATTGAAGATGCCATTGCTTCTCCGATGTTCTTGAG
 ACTGCTTCTAAATCTGCTAATCCACCCACACGATTCAAGCATCAGAAGAGCAGAGTTCAACCCACGAC
 CCGTGAAAAAGTCTGGCAAGCTGAGGCAGCAAATAGATGTGAAGGCGGAACTGGAGAAGCGGCAAGGAGG
 GAAGCAGCTACTCAACTAGTGGTCATTGGTCATGTTGATGCTGGGAAAAGTACTCTGATGGGCCATATG
 CTTTATCTTCTGGGTAATATAAACAAAAGAAGTATGCATAAGTATGAACAGGAGTCTAAAAGGCTGGCA
 AAGCTTCGTTTGCATATGCATGGGTCTTGGATGAAACTGGCGAAGAAAGGGAAAGGGGAGTAACCATGGA
 TGTTGGTATGACAAAGTTTGAACCACAACCAAGTTATTACATTAATGGATGCTCCAGGCCATAAGGAC
 TTCATTCCAAATATGATTACAGGAGCAGCCAGGCGGATGTAGCTGTTTTAGTTGTAGATGCCAGCAGGG
 GAGAGTTTGAAGCTGGATTTGAGACTGGAGGACAACACGAGAGCATGGACTCTTGGTCCGTTCTCTGGG
 AGTGACGCAGCTTGCAGTTGCAGTTAATAAAAATGGATCAGGTTAATTGGCAACAAGAAAGGTTTCAAGAG
 ATTAAGTGAAGTCTGGCACTTTCTTAAGCAAGCAGGTTTTAAGGAGAGTGATGTAGGTTTTATTCCCTA
 CAAGTGGTCTCAGTGGTGAAGTCTAATCACAAGATCTCAGTCAAGTGAACCTCACAAAATGGTATAAAGG
 ACTATGTTTATTAGAACAATTGATTCCTTTAAGCCTCCCAGCGATCTATTGACAAAACCTTTAGATTA
 TGTGTGTCGATGTTTTCAAAGATCAAGGATCTGGATTTGCATAACTGGTAAAAAGAGCTGGTTATA
 TCCAAACTGGTGACCGACTACTGGCAATGCCTCCTAATGAACTTGTACCGTGAAGGAATCACTCTGCA
 TGATGAACCTGTCGACTGGCGGCAGCAGGCGATCATGTTAGTCTTACTTTGGTTGGGATGGATATCATC
 AAAATCAATGTTGGCTGCATATTTGTGGCCCCAAAGTACCCATTAAGCTTGCCTCGTTTCAGAGCCC
 GAATCCTCATCTTTAATATTGAAATTCCTATCACTAAAGATTTCTGTGCTGTTACACTACCAAAGTGT
 CAGTGAACCCGCGTTATTAACGATTGATTAGTGTCTTAACAAAAGCACGGGTGAAGTCAAAAAGAAA
 AAGCCTAAGTTTTTACTAAAGGCCAGAATGCATTGGTAGAGCTACAGACACAAAAGACCAATAGCTCTTG
 AGCTATAAAGACTTTAAAGAGCTGGGAGGTTTCATGCTACGTTACGGTGGTTCTACAATAGCTGCTGG
 TGTTGTCAGTACTGAGATAAAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208125 representing NM_006620
 Red=Cloning site Green=Tags(s)

MARHRNVRGNYDEDFEDDDL YGQSVEDDYCISPSTAAQFIYSRRDKPSVEPVVEEYDYEDLKESNSVSN
 HQLSGFDQARLYSCLDHMREVLGDAVPDEILIEAVLKNKFDVQKALSGVLEQDRVQSLKDKNEATVSTGK
 IAKGKPVDSQTSRSESEIVPKVAKMTVSGKKQTMGFVPGVSSEENGHSFHTPQKGPPIEDAIASSDVLE
 TASKSANPPHTIQASEEQSSTPAPVKKSGKLRQQIDVKAELKRGQGGKQLLNLVVIGHVDAGKSTLMGHM
 LYLLGNINKRTMHKYEQESKKAGKASFAYAWVLDETGEERERGVMTDVGMTKFETTTKVITLMDAPGHKD
 FIPNMITGAAQADVAVLVVDASRGEFEAGFETGGQTRHGLLVRSLGVTQLAVAVNKMDQVNWQERFQE
 ITGKLGHLKQAGFKESDVGFIPITSGLSGENLITRSQSSELTWKYKGLCLLEQIDSFKPPQRSIDKPFRL
 CVSDVFKDQGGSGFCITGKIEAGYIQTGDRLLAMPNETCTVKGITLHDEPVDWAAAGDHVSLTLVGMDDII
 KINVCIFCGPKVPIKACTRFRARILIFNIEIPITKGFVLLHYQTVSEPAVIKRLISVLNKSTGEVTKK
 KPKFLTKGQNALVELQTRPIALELYKDFKELGRFMLRYGGSTIAAGVVTEIKE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

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_006620.4](#)

RefSeq Size: 7163 bp

RefSeq ORF: 2055 bp

Locus ID: 10767

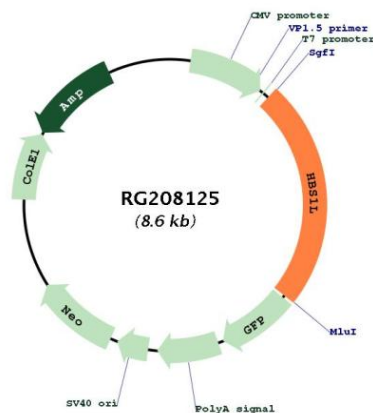
UniProt ID: [Q9Y450](#)

Cytogenetics: 6q23.3

Domains: GTP_EFTU, GTP_EFTU_D3, GTP_EFTU_D2

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]

Product images:



Circular map for RG208125