

## Product datasheet for SC119811

### HBA-T2 (HBB) (NM\_000518) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HBA-T2 (HBB) (NM_000518) Human Untagged Clone
Tag:	Tag Free
Symbol:	HBA-T2
Synonyms:	beta-globin; CD113t-C; ECT6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119811 sequence for NM_000518 edited (data generated by NextGen Sequencing) ATGGTGCATCTGACTCCTGAGGAGAAGTCTGCCGTTACTGCCCTGTGGGCAAGGTGAAC GTGGATGAAGTTGGTGGTGAGGCCCTGGGCAGGCTGCTGGTGGTCTACCCCTGGACCCAG AGGTTCTTTGAGTCCTTTGGGGATCTGTCCACTCCTGATGCTGTTATGGGCAACCCTAAG GTGAAGGCTCATGGCAAGAAAGTCTCGGTGCCTTTAGTGATGGCCTGGCTCACCTGGAC AACCTCAAGGGCACCTTTGCCACACTGAGTGAGCTGCACTGTGACAAGCTGCACGTGGAT CCTGAGAACTTCAGGCTCCTGGGCAACGTGCTGGTCTGTGTGCTGGCCCATCACTTTGGC AAAGAATTCACCCACCAGTGCAGGCTGCCTATCAGAAAGTGGTGGCTGGTGGCTAAT GCCCTGGCCACAAGTACTACTAA
5' Read Nucleotide Sequence:	Clone variation with respect to NM_000518.4 >OriGene 5' read for NM_000518 unedited GCACGAGGGTTCACTAGCAACCTCAAACAGACACCATGGTGCACCTGACTCCTGAGGAGA AGTCTGCCGTTACTGCCCTGTGGGGCAAGGTGAACGTGGATGAAGTTGGTGGTGAAGGCC TGGGCAGGCTGCTGGTGGTCTACCCCTGGACCCAGAGGTTCTTTGAGTCCTTTGGGGATC TGTCCTACTCCTGATGCTGTTATGGGCAACCCTAAGGTGAAGGCTCATGGCAAGAAAGTGC TCGGTGCCTTTAGTGATGGCCTGGCTCACCTGGACAACCTCAAGGGCACCTTTGCCACAC TGAGTGAGCTGCACTGTGACAAGCTGCACGTGGATCCTGAGAAGTTCAGGCTCCTGGGCA ACGTGCTGGTCTGTGTGCTGGCCATCACTTTGGCAAAGAATTCACCCACCAGTGCAGG CTGCCTATCAGAAAGTGGTGGCTGGTGGCTAATGCCCTGGCCACAAGTACTACTAAG CTCGCTTTCTGTGTCCAATTTCTATTAAGGTTCTTTGTTCCCTAAGTCCAAGTACT AAACTGGGGGATATTATGAAGGGCCTTGAGCATCTGGATTCTGCCTAATAAAAAACATTT ATTTTCATTGCAAAA
Restriction Sites:	NotI-NotI



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<b>ACCN:</b>	NM_000518
<b>Insert Size:</b>	740 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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_000518.4</a> , <a href="#">NP_000509.1</a>
<b>RefSeq Size:</b>	626 bp
<b>RefSeq ORF:</b>	444 bp
<b>Locus ID:</b>	3043
<b>UniProt ID:</b>	<a href="#">P68871</a>
<b>Cytogenetics:</b>	11p15.4
<b>Domains:</b>	globin
<b>Gene Summary:</b>	The alpha (HBA) and beta (HBB) loci determine the structure of the 2 types of polypeptide chains in adult hemoglobin, Hb A. The normal adult hemoglobin tetramer consists of two alpha chains and two beta chains. Mutant beta globin causes sickle cell anemia. Absence of beta chain causes beta-zero-thalassemia. Reduced amounts of detectable beta globin causes beta-plus-thalassemia. The order of the genes in the beta-globin cluster is 5'-epsilon -- gamma-G -- gamma-A -- delta -- beta--3'. [provided by RefSeq, Jul 2008]