

#### OriGene Technologies, Inc.

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# Product datasheet for RC203084

### hemoglobin subunit gamma 1 (HBG1) (NM\_000559) Human Tagged ORF Clone

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	hemoglobin subunit gamma 1 (HBG1) (NM_000559) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	hemoglobin subunit gamma 1
Synonyms:	HBG-T2; HBGA; HBGR; HSGGL1; PRO2979
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC203084 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGGTCATTTCACAGAGGAGGACAAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAATGTGGAAGATG CTGGAGGAGAAACCCTGGGAAGGCTCCTGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGG CAACCTGTCCTCTGCCTCTGCCATCATGGGCAACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACT TCCTTGGGAGATGCCATAAAGCACCTGGATGATCTCAAGGGCACCTTTGCCCAGCTGAGTGAACTGCACT GTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGGGAAATGTGCTGGTGACCGTTTTGGCAAT CCATTTCGGCAAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGAAGATGGTGACTGGAGTGGCCAGT GCCCTGTCCTCCAGATACCAC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGG <b>TTTAA</b>
Protein Sequence:	<pre>&gt;RC203084 protein sequence Red=Cloning site Green=Tags(s)</pre>
	MGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPKVKAHGKKVLT SLGDAIKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMVTGVAS ALSSRYH
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6055_f04.zip



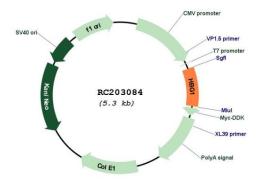
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Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	$\begin{tabular}{cccccccccccccccccccccccccccccccccccc$
	EcoR V     Flag.Tag     Pmei     Fsei       GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGGCC     D     L     A     N     D     I     L     D     Y     K     D     D     K     V     stop
.CCN: DRF Size:	NM_000559 441 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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
omponents:	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:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 000559.3</u>
efSeq Size:	584 bp
efSeq ORF:	444 bp
ocus ID:	3047

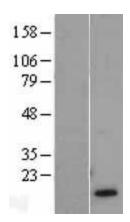
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	hemoglobin subunit gamma 1 (HBG1) (NM_000559) Human Tagged ORF Clone – RC203084
UniProt ID:	<u>P69891</u>
Cytogenetics:	11p15.4
Domains:	globin
MW:	16.1 kDa
Gene Summary:	The gamma globin genes (HBG1 and HBG2) are normally expressed in the fetal liver, spleen and bone marrow. Two gamma chains together with two alpha chains constitute fetal hemoglobin (HbF) which is normally replaced by adult hemoglobin (HbA) at birth. In some beta-thalassemias and related conditions, gamma chain production continues into adulthood. The two types of gamma chains differ at residue 136 where glycine is found in the G-gamma product (HBG2) and alanine is found in the A-gamma product (HBG1). The former is predominant at birth. The order of the genes in the beta-globin cluster is: 5'-epsilon gamma-G gamma-A delta beta3'. [provided by RefSeq, Jul 2008]

## **Product images:**

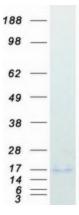


Circular map for RC203084



Western blot validation of overexpression lysate (Cat# [LY400190]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203084 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified HBG1 protein (Cat# [TP303084]). The protein was produced from HEK293T cells transfected with HBG1 cDNA clone (Cat# RC203084) using MegaTran 2.0 (Cat# [TT210002]).

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