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Product datasheet for SC120038

Hemoglobin subunit gamma 2 (HBG2) (NM_000184) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hemoglobin subunit gamma 2 (HBG2) (NM_000184) Human Untagged Clone
Tag:	Tag Free
Symbol:	Hemoglobin subunit gamma 2
Synonyms:	HBG-T1; TNCY
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC120038 sequence for NM_000184 edited (data generated by NextGen Sequencing)

ATGGGTCATTTCACAGAGGAGGACAAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAAT
GTGGAAGATGCTGGAGGAGAAACCCTGGGAAGGCTCCTGGTTGTCTACCCATGGACCCAG
AGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCCATCATGGGCAACCCCAAA
GTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGAT
GATCTCAAGGGCACCTTTGCCCAGCTGAGTGAACTGCACTGTGACAAGCTGCATGTGGAT
CCTGAGAACTTCAAGCTCCTGGGAAATGTGCTGGTGACCGTTTTGGCAATCCATTTCGGC
AAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGAAGATGGTGACTGGAGTGGCCAGT
GCCCTGTCCTCCAGATACCACTGA

Clone variation with respect to NM_000184.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000184 unedited
GAAGCCTGGGTTCTTTCACAGAGGAGGACAAGGCTACTATCACAAGCCTGTGGGGCAAGG
TGAATGTGGAAGATGCTGGAGGAGAAACCCTGGGAAAGGCTCCTGGTTGTCTACCCATGG
ACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCCATCATGGGCAAC
CCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCAC
CTGGATGATCTCAAGGGCACCTTTGCCCAGCTGAGTGAACTGCACTGTGACAAGCTGCAT
GTGGATCCTGAGAACTTCAAGCTCCTGGGAAATGTGCTGGTGACCGTTTTGGCAATCCAT
TTCGGCAAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGAAGATGGTGACTGGAGTG
GCCAGTGCCCTGTCCTCCAGATACCACTGAGCTCACTGCCCATGATGCAGAGCTTTCAAG
GATAGGCTTTATTCTGCAAGCAATCAAATAATAAATCTATTCTGCTAAGAGATCACAAAA
AAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTCATAGCTGTTTCCTGAACA
GATCCCGGGTGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCC
ACTCCAGTGCCCACCAGCCTTGTCCTATAAAATTAAGTTGCATCATTTTGTCTGACTAGG
TGTCCTTCTTATATATGGGTGAGGGGGGGNGNGGNGNNTNNNNANNN

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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000184 unedited
NTTAGCTCTGGACCGGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTGGG
ATCTCTTAGCAGAATAGATTTATTATTTGATTGCTTGCAGAATAAAGCCTATCCTTGAAA
GCTCTGCATCATGGGCAGTGAGCTCAGTGGTATCTGGAGGACAGGGCACTGGCCACTCCA
GTCACCATCTTCTGCCAGGAAGCCTGCACCTCAGGGGTGAATTCTTTGCCGAAATGGATT
GCCAAAACGGTCACCAGCACATTTCCCAGGAGCTTGAAGTTCTCAGGATCCACATGCAGC
TTGTCACAGTGCAGTTCACTCAGCTGGGCAAAGGTGCCCTTGAGATCATCCAGGTGCTTT
ATGGCATCTCCCAAGGAAGTCAGCACCTTCTTGCCATGTGCCTTGACTTTGGGGTTGCCC
ATGATGGCAGAGGCAGAGGACAGGTTGCCAAAGCTGTCAAAGAACCTCTGGGTCCATGGG
TAGACAACCAGGAGCCTTCCCAGGGTTTCTCCTCCAGCATCTTCCACATTCACCTTGCCC
CACAGGCTTGTGATAGTAGCCTTGTCCTCCTCTGTGAAATGACCCATGGCGTCTGGACTA
GGAGCTTATTGATAACCTCAGCCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTA
TTACAAAATTCTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCCCACCGTACAC
GCCTACCGNCCATTTGCGTCAACGGGGCGGGGTTATTACGACATTTTGGAAAGTNCCGTT
GATTTTGGTGCCAAACAAACTTCCATTGACGTCATGGGGGTGGGAGACTTGGAAATCCCC
GTGAGTCAAACCGCTATCCACGCCCATTGGTGTACTGGCCAAACCGCATCACATGGTATT
AGCGAGACTAATCCCTANATGTACTGCAGTNAGGAAGTCCCGC

Restriction Sites: NotI-NotI

ACCN: NM_000184

Insert Size: 620 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).

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_000184.2, NP_000175.1

RefSeq Size: 583 bp

RefSeq ORF: 444 bp

Locus ID: 3048

UniProt ID: P69892

Cytogenetics: 11p15.4

Domains: globin

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 -- beta--3'. [provided by RefSeq, Jul 2008]