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Product datasheet for SC321813

Cytoglobin (CYGB) (NM_134268) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cytoglobin (CYGB) (NM_134268) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cytoglobin
Synonyms:	HGB; STAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

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>OriGene sequence for NM_134268.3
CCGCCGCCGAGCAAAGCCGGGCTGGGCTTGGAGCTGCTCATGGAGAAAGTGCCAGGCGAG
ATGGAGATCGAGCGCAGGGAGCGGAGCGAGGAGCTGTCCGAGGCGGAGAGGAAGGCGGTG
CAGGCTATGTGGGCCCGGCTCTATGCCAGCTGCGAGGACGTGGGGGTGGCCATCCTGGTG
AGGTTCTTTGTGAACTTCCCCTCGGCCAAGCAGTACTTCAGCCAGTTCAAGCACATGGAG
GATCCCCTGGAGATGGAGCGGAGCCCCCAGCTGCGGAAGCACGCCTGCCGAGTCATGGGG
GCCCTCAACACTGTCGTGGAGAACCTGCATGACCCCGACAAGGTGTCCTCTGTGCTCGCC
CTTGTGGGGAAAGCCCACGCCCTCAAGCACAAGGTGGAACCGGTGTACTTCAAGATCCTC
TCTGGGGTCATTCTGGAGGTGGTCGCCGAGGAATTTGCCAGTGACTTCCCACCTGAGACG
CAGAGAGCCTGGGCCAAGCTGCGTGGCCTCATCTACAGCCACGTGACCGCTGCCTACAAG
GAAGTGGGCTGGGTGCAGCAGGTCCCCAACGCCACCACCCCACCGGCCACACTGCCCTCT
TCGGGGCCGTAGGACCCCTCCCTCCACCCCCCTCCCTGGCAGCACCTCGAGCAGAAGGCC
GAGTTCTGAAGACCCTCCTTGACGCTCCATTTCTGGGTGCCAAGGAAGCTGGAGGAATCC
CTGACTCAACTTCCCCGAAGGAGGCCTCTGTGGCGGCCAGGGTCCCCCCCTGGAGCTGCT
GGGAGGCGGCGCTGGCTGCCTGGATGCTGACCCCAGCGCGGCGGGCAGAGCGGGGCCCAC
TCTTCTTAGCTTTTCTACTCACTGTTAGAGAGAGACCTAGCTGAGCGGCTGGCAGGAAGC
GGGACAGGTCTAGGAGTCCCTTAGGGAATAAACCAGCCCCGTTTCTATCAGCCCGGCCAG
CATGCAGGTCTCCACATCACCATCTAGAGTATCACGCACACATCTACCATATATACAGAT
ACATTCTATATACGAGCTATATATAAATATATATATACATATATATATACACACATACAT
ATCTAGAATGTGTATCCGCGGCGCCCAGAAGCCTCGGTTTGGCCCACCTGTGAGTGGGGC
AGGGAGGGGTTCCGGTTGTGCAGAGAACAGAGTGTTCTGGCAAAGAGGAAATCCCACAGC
AGCGCAGAGGACCTGGGCCTGGAGGGGCAGGGCTGGGGCAACCCGGCTTGGCGGCAAAGC
CCAGCCCCTTCTCAGACCAGCTCCCCACATTCCTGAATTCCACTTCCAGGCAGAAAGGAG
TGGGCTCCCCCTACTCCCTCAGAGGAACTGACTCACCGGCTGTCCTAGAATGGGCAGGGG
CAGAGCGAAGTTCTGGGTGGGATGACCGCACTGGGGGAGGGGCCTCAGTCCAGAAACCTC
GACCGCTAGCTCCACCTGCCTTGGCCACCAGGGCAGCCCCAGGGGATCCGGGCTGCTGGG
CAGCAGGTCGGCGGGACCACATGCCTGGGTCTCACCCTCAGCTCCGAGGGCCGAGGGCTT
TCCCCACCCCACCCTCCTCCTGGCCGGCAGTCGGCCCTGTCTATTCATCTGCGTCAGGCT
TGCCAGGGGGGCCCCCCGTGTGTGCCCCTTGGTCACGTGTGTCGTCTTCAAGGATGTTTT
GCTGCTGTGGCTCCTGCTGTGTCCCCTCCTGGCCCATCCTCATCCTCATCTTCATCCTCA
TCCTCATCTGTGCAACCGCCCGTCCTCCTTTTCTAGTTTCTGATGTTTGTAACCAGACCC
AGCTGTGTCATTAAACAGACCCGTTCTTGCTGTAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_134268

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_134268.3, NP_599030.1
RefSeq Size:	1951 bp
RefSeq ORF:	573 bp
Locus ID:	114757
UniProt ID:	Q8WWM9
Cytogenetics:	17q25.1
Domains:	globin
Gene Summary:	This gene encodes a globin protein found in vertebrate cells. The encoded protein is described as a hexacoordinate hemoglobin which binds ligand differently from the pentacoordinate hemoglobins involved in oxygen transport, and may be involved in protection during oxidative stress. This gene is located on chromosome 17 in the same region as a retinal gene which is mutated in progressive rod-cone degeneration, but in the opposite orientation. [provided by RefSeq, Jan 2012]