

Product datasheet for **SC320890**

Myoglobin (MB) (NM_203378) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myoglobin (MB) (NM_203378) Human Untagged Clone
Tag: Tag Free
Symbol: Myoglobin
Synonyms: PVALB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_203378.1
GGGAAACCCAGCTGTTGGGGCCAGGACCCAGTGAGCCCATACTTGCTCTTTTTGTC
TTCTTCAGACTGCGCCATGGGGCTCAGCGACGGGGAATGGCAGTTGGTGCTGAACGTCTG
GGGAAGGTGGAGGCTGACATCCCAGGCCATGGGCAGGAAGTCCCTCATCAGGCTCTTTAA
GGTCCACCCAGAGACTCTGGAGAAGTTTGACAAGTTCAAGCACCTGAAGTCAAGAGGACGA
GATGAAGGCATCTGAGGACTTAAAGAAGCATGGTGCCACTGTGCTCACC GCCCTGGGTGG
CATCTTAAGAAGAAGGGGCATCATGAGGCAGAGATTAAGCCCCTGGCACAGTCCGATGC
CACCAAGCACAAGATCCCCGTGAAGTACCTGGAGTTCATCTCGGAATGCATCCAGGT
TCTGCAGAGCAAGCATCCCAGGGACTTTGGTGCTGATGCCAGGGGGCCATGAACAAGGC
CCTGGAGCTGTTCCGGAAGGACATGGCCTCCAACAAGGAGCTGGGCTCCAGGGCTA
GGCCCCTGCCGCTCCCACCCCCACCCATCTGGGCCCGGGTTCAAGAGAGAGCGGGTCT
GATCTCGTGTAGCCATATAGAGTTTGCTTCTGAGTGTCTGCTTTGTTAGTAGAGGTGGG
CAGGAGGAGCTGAGGGGCTGGGGCTGGGGTGTGAAGTTGGCTTTGCATGCCAGCGATG
CGCCTCCCTGTGGGATGTCATCACCCCTGGGAACCGGGAGTGGCCCTTGGCTCACTGTGTT
CTGCATGGTTGGATCTGAATTAATTGCTTTTCTTAAATCCCAACCGAACTTCTTCC
AACCTCCAACTGGGTGTAACCCCAATCCAAGCCATTAACCTACACCTGACAGTAGCAAT
TGTCTGATTAATCACTGGCCCCTGAAGACAGCAGAATGTCCCTTTGCAATGAGGAGGAG
ATCTGGGCTGGGCGGGCCAGCTGGGGAAGCATTGACTATCTGGAACCTTGTGTGCCTC
CTCAGGTATGGCAGTCACTCACCTGGTTTTAATAAAACAACCTGCAACATCTCAAAAAA
AA
AA

Restriction Sites: Please inquire
ACCN: NM_203378



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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:	<ol style="list-style-type: none">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_203378.1 , NP_976312.1
RefSeq Size:	1153 bp
RefSeq ORF:	465 bp
Locus ID:	4151
UniProt ID:	P02144
Cytogenetics:	22q12.3
Gene Summary:	<p>This gene encodes a member of the globin superfamily and is predominantly expressed in skeletal and cardiac muscles. The encoded protein forms a monomeric globular haemoprotein that is primarily responsible for the storage and facilitated transfer of oxygen from the cell membrane to the mitochondria. This protein also plays a role in regulating physiological levels of nitric oxide. Multiple transcript variants encoding distinct isoforms exist for this gene. [provided by RefSeq, May 2020]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1-4 encode the same protein.</p>