

## Product datasheet for **SC122555**

### Myocilin (MYOC) (NM\_000261) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myocilin (MYOC) (NM_000261) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myocilin
Synonyms:	GLC1A; GPOA; JOAG; JOAG1; TIGR
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_000261 edited
CATCCAGGCACCTCTCAGCACAGCAGAGCTTCCAGAGGAAGCCTCACCAAGCCTCTGCA
ATGAGGTTCTTCTGTGCACGTTGCTGCAGCTTTGGGCCTGAGATGCCAGCTGTCCAGCTG
CTGCTTCTGGCCTGCCTGGTGTGGGATGTGGGGCCAGGACAGCTCAGCTCAGGAAGGCC
AATGACCAGAGTGGCCGATGCCAGTATACCTTCAGTGTGGCCAGTCCCAATGAATCCAGC
TGCCCAGAGCAGAGCCAGGCCATGTCAGTCATCCATAACTTACAGAGAGACAGCAGCACC
CAACGCTTAGACCTGGAGGCCACCAAAGCTCGACTCAGCTCCCTGGAGAGCCTCCTCCAC
CAATTGACCTTGGACCAGGCTGCCAGGCCAGGAGACCCAGGAGGGGCTGCAGAGGGAG
CTGGGCACCTGAGGCGGGAGCGGGACAGCTGGAAACCCAAACCAGAGAGTTGGAGACT
GCCTACAGCAACCTCCTCCGAGACAAGTCAGTTCTGGAGGAAGAGAAGAAGCGACTAAGG
CAAGAAAATGAGAATCTGGCCAGGAGTTGGAAAGCAGCAGCCAGGAGGTAGCAAGGCTG
AGAAGGGGCCAGTGTCCCAGACCCGAGACACTGCTCGGGCTGTGCCACCAGGCTCCAGA
GAAGTTTCTACGTGGAATTTGGACACTTTGGCCTTCCAGGAACTGAAGTCCGAGCTAACT
GAAGTTCTGCTTCCCGAATTTTGAAGGAGAGCCCATCTGGCTATCTCAGGAGTGGAGAG
GGAGACACCGGATGTGGAGAAGTGTGGTGGTAGGAGAGCCTCTCACGCTGAGAACAGCA
GAAACAATTAAGCAAGTATGGTGTGTGGATGCGAGACCCCAAGCCACCTACCCCTAC
ACCCAGGAGACCAGTGGAGAATCGACACAGTTGGCACGGATGTCCGCCAGGTTTTTGGAG
TATGACCTCATCAGCCAGTTTATGCAGGGCTACCCTTCTAAGGTTTACATACTGCCTAGG
CCACTGGAAGACCGGGTGTGTGGTGTACTCGGGGAGCCTCTATTTCCAGGGCGCTGAG
TCCAGAAGTGTATAAGATATGAGCTGAATACCGAGACAGTGAAGGCTGAGAAGGAAATC
CCTGGAGCTGGTACCACGGACAGTTCCCGTATTCTTGGGGTGGCTACACGGACATTGAC
TTGGCTGTGGATGAAGCAGGCCCTCTGGGTCAATTTACAGCACCGATGAGGCCAAAGGTGCC
ATTGTCCTCTCCAAACTGAACCCAGAGAATCTGGAACCTGAAACAACTGGGAGACAAC
ATCCGTAAGCAGTCAGTCGCAATGCCTTCATCATCTGTGGCACCTTGTACACCGTCAGC
AGCTACACCTCAGCAGATGCTACCGTCAACTTTGCTTATGACACAGGCACAGGTATCAGC
AAGACCTGACCATCCCATTCAAGAACCCTATAAGTACAGCAGCATGATTGACTACAAC
CCCCTGGAGAAGAAGCTCTTTCCTGGGACAACCTGAACATGGTCACTTATGACATCAAG
CTCTCCAAGATGTGAAAAGCCTCCAAGCTGTACAGGCAATGGCAGAAGGAGATGCTCAGG
GCTCCTGGGGGAGCAGGCTGAAGGGAGAGCCAGCCAGCCAGGGCCAGGCAGCTTTGAC
TGCTTTCCAAGTTTTTCAATTAATCCAGAAGGATGAACATGGTCAACATCTAACTATTCAGG
AATTGTAGTCTGAGGGCGTAGACAATTTTCAATAATAAATATCCTTTATCTTCTGTGAGC
ATTTATGGGATGTTAATGACATAGTTCAAGTTTTCTTGTGATTTGGGGCAAAAGCTGTA
AGGCATAATAGTTTTCTTCTGAAAACCATTTGCTCTTGCATGTTACATGGTTACCAAAGC
CACAATAAAAAGCATAACTTCTAAAGGAAGCAGAAATAGCTCCTCTGGCCAGCATCGAATA
TAAGTAAGATGCATTTACTACAGTTGGCTTCTAATGCTTCAGATAGAATACAGTTGGGTC
TCACATAACCCCTTACATTGTGAAATAAAATTTTCTTACCCAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000261 unedited NAAAATGTTTGNATTTTTGTNAATACGACTTCACTATAGGGACGGGCCGNAATTCCC GGGCATCATCCAGCACCTCTCAGCACAGCATATCTTTCCAGAGGAAGCCTCACCAAGCCT CTGCAATGAGGTTCTTCTGTGCACGTTGCTGCAGCTTTGGGCCTGAGATGCCAGCTGTCC AGCTGTGCTTCTGGCCTGCCTGGTGTGGGATGTGGGGCCAGGACAGCTCAGCTCATGA AGGCCAATGACCAGAGTGGCCGATGCCAGTATACCTTCAGTGTGGCCAGTCCCAATGAAT CCAGCTGCCAGAGCAGAGCCAGGCCATGTCAGTCATCCATAAATTACAGAGAGACAGCA GCACCCAACGCTTAGACCTGGAGGCCACCAAAGCTCGACTCAGCTCCCTGGAGAGCCTCC TCCACCAATTGACCTTGGACCAGGCTGCCAGGCCCCAGGAGACCCAGGAGGGGCTGCAGA GGGAGCTGGGCACCCTGAGGCGGGAGCGGGACCAGCTGGAAACCCAAACCAGAGATTGG AGACTGCCTACAGCAACCTCCTCCGAGACAAGTCAGTTCTGGAGGAAGAGAAGAAGCGAC TAAGGCAAGAAAATGAGAATCTGGCCAGGAGTTGAAAGCAGCAGCCAGGAAGTAGCAA GGCTGAGAAGGGGCCAGTGTCCCAGACCCGAGACTGCTCGGGCTGTGCCACCAGGCT CCAGAGAAGTTTCTACGTGGAATTTGGACTTTGGCCTTCCAGGAACTGAAGTCCGAGC TAACTGAAGTTCCCTGCTTCCCATTGAAAGGAGAGCCCATCTGGCTATCNTCAGAGTG GAAAAGGAGACACCGGATGTGGAGAACTANTTTGGGGTTAAGAAAGCTCTNACGCTGAGA CAGCAGAAACATACTGCAGTTTNGGGGTGGGGATC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000261
<b>Insert Size:</b>	2111 bp
<b>OTI Disclaimer:</b>	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.
	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>
<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>RefSeq:</b>	<a href="#">NM_000261.1</a> , <a href="#">NP_000252.1</a>
<b>RefSeq Size:</b>	2061 bp

RefSeq ORF: 1515 bp

Locus ID: 4653

UniProt ID: [Q99972](#)

Cytogenetics: 1q24.3

Protein Families: Druggable Genome, Secreted Protein

**Gene Summary:** MYOC encodes the protein myocilin, which is believed to have a role in cytoskeletal function. MYOC is expressed in many ocular tissues, including the trabecular meshwork, and was revealed to be the trabecular meshwork glucocorticoid-inducible response protein (TIGR). The trabecular meshwork is a specialized eye tissue essential in regulating intraocular pressure, and mutations in MYOC have been identified as the cause of hereditary juvenile-onset open-angle glaucoma. [provided by RefSeq, Jul 2008]