

## Product datasheet for **MC216807**

### Myoc (NM\_010865) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myoc (NM_010865) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myoc
Synonyms:	AI957332; GLC1A; TIGR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Restriction Sites:	Sgfl-RsrII
ACCN:	NM_010865
Insert Size:	1473 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:	<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>
RefSeq:	<a href="#">NM_010865.3</a> , <a href="#">NP_034995.3</a>
RefSeq Size:	2093 bp
RefSeq ORF:	1473 bp



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Locus ID: 17926

UniProt ID: [O70624](#)

Cytogenetics: 1 70.29 cM

**Gene Summary:** Secreted glycoprotein regulating the activation of different signaling pathways in adjacent cells to control different processes including cell adhesion, cell-matrix adhesion, cytoskeleton organization and cell migration. Promotes substrate adhesion, spreading and formation of focal contacts. Negatively regulates cell-matrix adhesion and stress fiber assembly through Rho protein signal transduction. Modulates the organization of actin cytoskeleton by stimulating the formation of stress fibers through interactions with components of Wnt signaling pathways. Promotes cell migration through activation of PTK2 and the downstream phosphatidylinositol 3-kinase signaling (By similarity). Plays a role in bone formation and promotes osteoblast differentiation in a dose-dependent manner through mitogen-activated protein kinase signaling (PubMed:23629661). Mediates myelination in the peripheral nervous system through ERBB2/ERBB3 signaling (PubMed:23897819). Plays a role as a regulator of muscle hypertrophy through the components of dystrophin-associated protein complex (PubMed:22371502). Involved in positive regulation of mitochondrial depolarization. Plays a role in neurite outgrowth. May participate in the obstruction of fluid outflow in the trabecular meshwork (By similarity).[UniProtKB/Swiss-Prot Function]