

Product datasheet for **RG217991**

MYH7B (NM_020884) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYH7B (NM_020884) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MYH7B
Synonyms:	MHC14; MYH14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217991 representing NM_020884 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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ACCCTGGACACAAAGCTGCCCCGGCAGTCTTCATCGGGTTCTGGACATCGCTGGGTTTGGATCTTTG
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG217991 representing NM_020884
 Red=Cloning site Green=Tags(s)

MSGNKRGSRASCPHRGAECCLPWAALNLQGFQLLLLHPSATAMMDVSELGESARYLRQGYQEMTKVHTIPWDGKKRVVWPDEQDAYVEAEVKSEATGGRVTVETKDQKLMVREAEQPMNPPRFDLLEDMAMMTHLNEASVLLHNLRQRYARWMIYYSGLFCVTINPYKWLPHYTASVVAAYKGRKRSDSPPHIYAVADNAYNDMLRNRDNQSMLEITGESGAGKTVNTRKVIQYFAIYAALGDGPGKKAQFLATKTGGTLEDQIIEANPAMEAFGNAKTLRNDNSSRFKGFIRIHFGPSGLASADIDSYLLEKSRVIFQLPGRSRYHYVYQILSGRKPQLQDMLLLSNPYDYHFCSQGVITVDNMNDGEELIATDHAMDILGFSVDEKACACYKIVGALLHFGNMKFKQKQREEQAEA DGTESADKAAYLMGVSSGDLLKLLHPRVRVGNVYVTKGQSVEQVAVGALAKATYDRLFRWLVSRLNQ TLDTKLPRQFFIGVLDIAGFEIFEFNSFEQLCINFNEKLQQFFNQHMVLEQEEYKREGIDWVDFDFGL DLQPCIDLIEKPLGILSILEEEMFPAKASDASFRAKLYDNHAGKSPNFQPPRDKRKYQAHFEVHYAG VVPYSIVGWLEKNKDPLNETVVPVIFQKSNRLLATLYENYAGSCSTEPKSGVKEKRKKAASFQTVSQLH KENLNKMTNLRATQPHFVRCIVPNENKTPGVMDAFLVLHQLRCNGVLEGIRICRQGFNRLLYTDFRQR YRILNPSAIPDDTFMDSRKATEKLLGSLDLHTQYQFGHTKVFFKAGLLGVLEELRDQLAKVLTLLQAR SRGRLMRLEYQRLGGRDALFTIQWNIRAFNAVKNWSWMKLFKMKPLLRSQAEEELAAALRAELRGLRG ALAAAEAKRQEEETHVSIQEKNDLALQLQAEQDNLADAERCHLLIKSKVQLEGVKELSERLEDEEE VNADLAARRRKLDECTELKDDLELTLAKAEKEKQATENKVKNLTEEMAALDESVARLTKEKKALQE AHQQALGDLQAEEDRVSALEKALRLEQQVEDLECSLEQEKLRMDTERAKRLEGLKLTQESVADAAQ DKQQLLEKLEKKEKSELSQLSLRVEDEQLLGAQMOKKIKELQARAELEEELEAERAARARVEKQRAEAAR ELEELSERLEEAGGASAGQREGCRKREAEGLRRLREEEAALRHEATVAALRRKQAEGAELGEQVDSLQ RVRQKLEKEKSELRMEVDDLAANVETLTRAKASAEKLCRTYEDQLSEAKIKVEELQRQLADASTQRGLQ TESGELSRLLLEEKELISQLSRGKALAAQSEELRRQLEEEESKAKSALAHAVQALRHDCDLLREQHEEEA EAQAEQLRLLSKANAQVQWRSKYEADAIQRTEELEEAKKKLALRLQEAEEGVEAANAKCSSLEKAKLRL QTESEDVTLELERATSAAAALDKQRHLERALEERRRQEEMQRELEAAQRESRGLGTELFRLRHGHEEA LEALETLEKRENKLEQEEISDLTDQVSLSGKSIQELEKTKKALEGEKSEIQAALAAEAGALEEETKTLRI QLELSQVKAQVDRKLAEKDEECANLRRNHQRAVESLQASLDAETRARNEALRLKKMEGLNDLELQLGH ATRQATEAQAAATRLMQAQLKEEQAGRDEEQRLAAELHEQAQALERRASLLAAEELRAALEQGERSRRL AEQELLEATERLNLHSQNTGLLNQKKKLEADLAQLSGEVVEAAQERREAEKAKKAITDAAMMAEELK EQDTSAHLERMKKTLEQTVRELQARLEEAQEAALRGGKKQVQKLEAKVRELEAELEAEQKHAELKGVK KHERRVKELAYQAEEDRKNLARMQDLVDKLVKSYKQFEEAEQQANTNLAKYRKAQHELDAAERAD MAETQANKLRARTRDALGPKHKE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_020884.1 , NP_065935.1
RefSeq Size:	6289 bp
RefSeq ORF:	5826 bp
Locus ID:	57644
UniProt ID:	A7E2Y1
Cytogenetics:	20q11.22
Protein Families:	Druggable Genome
Protein Pathways:	Tight junction, Viral myocarditis
Gene Summary:	The myosin II molecule is a multi-subunit complex consisting of two heavy chains and four light chains. This gene encodes a heavy chain of myosin II, which is a member of the motor-domain superfamily. The heavy chain includes a globular motor domain, which catalyzes ATP hydrolysis and interacts with actin, and a tail domain in which heptad repeat sequences promote dimerization by interacting to form a rod-like alpha-helical coiled coil. This heavy chain subunit is a slow-twitch myosin. Alternatively spliced transcript variants have been found, but the full-length nature of these variants is not determined. [provided by RefSeq, Mar 2010]