

Product datasheet for **RG222917**

MYO6 (NM_004999) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MYO6 (NM_004999) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MYO6
Synonyms: DFNA22; DFNB37
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222917 representing NM_004999
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGATGAAAGCCCGTTGGGCGCCACACCTACAGATGGATTCAGATGGCAATATTGTGGATA
 TTGGCCCCGACAGCTTAACAATTGAACCCTTGAATCAGAAAGGCAAGACATTTTTGGCTCTCATAAACCA
 AGTGTTCCTGCAGAAGAGGACAGTAAAAAGATGTGGAAGATAACTGTTCACTAATGTATTTAAATGAA
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 TGATTGCAGTGAATCCATACTTTGACATACCTAAAATATATTCTTCAGAAGCAATAAAGTCATATCAAGG
 AAAATCTCTTGGACAAGACCACCTCATGTCTTTGCAATTGCTGATAAAGCTTTTCGAGACATGAAGGTG
 CTCAAGATGAGTCAGTCTATCATTGTATCTGGAGAATCAGGAGCCGGCAAAACAGAAAATACAAAATTTG
 TTCTAAGATACCTGACTGAATCCTATGGAACAGGTCAAGATATTGATGACAGAATTGTTGAAGCTAACCC
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 GAAATACATTTAATGAAAAGAGCTCAGTTGTTGGAGGATTTGTTTCACATTATCTCCTAGAGAAATCTA
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GAGGAACAAGAACTCTATCAAAAAGAAGGTTTAGGTGTTAATGAAGTGCATTATGTGGATAATCAGGACT
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TCGGAAGCGTGGTGTGAGATCTTGCCAAGACAGTTTGAAGAAATCTGGGAACGCTGTGGAGGCATCCAG
TACCTTCAGAATGCGATTGAGAGCAGACAGGCTCGGCCACCTATGCAACAGCCATGCTGCAGAGTCTGT
TAAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG222917 representing NM_004999
 Red=Cloning site Green=Tags(s)

MEDGKPVWAPHTDGFQMGNIVDIGPDSLTIIEPLNQGKGTFLALINQVFPAAEEDSKKDVEDNCSLMYLN
 ATLLHNIKVRYSKDRIYTYVANILIAVNPYFDIPKIYSSEAIKSYQGKSLGTRPPHVFAIADKAFRDMKV
 LKMSQSIIVSGESGAGKTENTKFLRYL T ESYGTGQDIDDRIVEANPLLEAFGNAKTVRNNNSRFKGFV
 EIHFNKSSVVGGFVSHYLLEKSRICVQKKEERNYHIFYRLCAGASEDIREKHLHSSPDNFRYLNRGCTR
 YFANKETDKQILQNRKSPEYLKAGSMKDLLDDHGDFIRMCTAMKKIGLDDEEKLDLFRVVAGVLHLGNI
 DFEEAGSTSGGCNLKNKSAQSLEYCAELLGLDQDDLRLVSLTTRVMLTTAGGKGTVIKVPKVEQANNAR
 DALAKTVYSHLFDHVNRVNCQFPFETSSYFIGVLDIAGFEYFEHNSFEQFCINYCNEKLQOFFNERILK
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 RKSKLAVHRNIRDDEGFIIRHFAGAVCYETTQFVEKNNDALHMSLES LICESRDKFIRELFESSTNNKND
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 MQGGYPSRASFHELYNMYKYPDKLARLDPRFLCKALFKALGLNENDYKFG LTKVFFRPGKFAEFDQIM
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 SALQKKKQEEEEAERLRRIQEEMEKERKRREDEKRRRKEEEEERMKLEMAKRKQEEEEERKXREDEKR
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 KEMSEFLSRGPAVLATKAAAGTKKYDL SKWKYAE LRDTINTSCDIELLAACREEFHRRLKVYHAWKSKNK
 KRNTETEQRAPKSVTDYDFAPFLNNSPQQNPAAQIPARQREIEMNRQRFRIPIFIRPADQYKDPQSKKK
 GWWYAHFDGPWIARQEMELHPDKPPIILLVAGKDDMEMCELNLEETGLTRKRGAEILPRQFEEIWERCGGIQ
 YLQNAIESRQARPTYATAMLQSLLK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

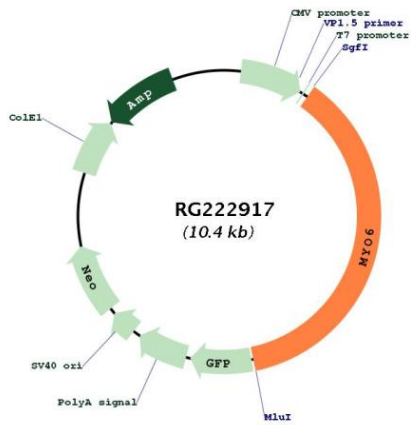


ACCN: NM_004999

ORF Size: 3855 bp

OTI Disclaimer:	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. More info
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_004999.2 , NP_004990.2
RefSeq Size:	5278 bp
RefSeq ORF:	3858 bp
Locus ID:	4646
UniProt ID:	Q9UM54
Cytogenetics:	6q14.1
Domains:	IQ, myosin_head
Gene Summary:	This gene encodes a reverse-direction motor protein that moves toward the minus end of actin filaments and plays a role in intracellular vesicle and organelle transport. The protein consists of a motor domain containing an ATP- and an actin-binding site and a globular tail which interacts with other proteins. This protein maintains the structural integrity of inner ear hair cells and mutations in this gene cause non-syndromic autosomal dominant and recessive hearing loss. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RG222917