

Product datasheet for RC222917

MYO6 (NM_004999) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO6 (NM_004999) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYO6
Synonyms:	DFNA22; DFNB37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222917 representing NM_004999 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGATGAAAGCCCGTTGGGCGCCACACCTACAGATGGATTCAGATGGCAATATTGTGGATA
TTGGCCCCGACAGCTTAACAATTGAACCCTTGAATCAGAAAGGCAAGACATTTTTGGCTCTCATAAACCA
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GCCACACTGCTCCATAATCAAAAGTTCGATATAGTAAAGACAGAATTTATACATATGTCGCCAACATTC
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AAAATCTCTTGGACAAGACCACCTCATGTCTTTGCAATTGCTGATAAAGCTTTTCGAGACATGAAGGTG
CTCAAGATGAGTCAGTCTATCATTGTATCTGGAGAATCAGGAGCCGGCAAAACAGAAAATACAAAATTTG
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ACTCCTAGAAGCCTTTGGAAATGCGAAGACTGTTGCAACAATAATAGCAGTCGATTTGGGAAATTTGTA
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GAGGAACAAGAACTCTATCAAAAAGAAGGTTTAGGTGTTAATGAAGTGCATTATGTGGATAATCAGGACT
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Protein Sequence: >RC222917 representing NM_004999
 Red=Cloning site Green=Tags(s)

MEDGKPVWAPHTDGFQMGNIVDIGPDSLTIIEPLNQKGTFLALINQVFPAEEDSKKDVEDNCSLMYLN
 ATLLHNIKVRYSKDRIYTYVANILIAVNPYFDIPKIYSSEAIKSYQGKSLGTRPPHVAIADKAFRDMKV
 LKMSQSIIVSGESGAGKTENTKFLRYL T ESYGTGQDIDDRIVEANPLLEAFGNAKTVRNNSSRFGKFV
 EIHFNKSSVVGGFVSHYLLEKSRICVQKKEERNYHIFYRLCAGASEDIREKHLSSPDNFRYLNRGCTR
 YFANKETDKQILQNRKSPEYLKAGSMKDPLLDDHGDFIRMCTAMKKIGLDDEEKLDLFRVVAGVLHLGNI
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 DALAKTVYSHLFDHVNRVNQCFFETSSYFIGVLDIAGFEYFEHNSFEQFCINYCNEKLQOFFNERILK
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 MQGGYPSRASFHELYNMYKKYMPDKLARLDPRFLCKALFKALGLNENDYKFG LTKVFFRPGKFAEFDQIM
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 KEMSEFLSRGPAVLATKAAAGTKKYDL SKWKYAE LRDTINTSCDIELLAACREEFHRRLKVVHAWKSKNK
 KRNTETEQRAPKSVTDYDFAPFLNNSPQQNPAQIPARQREIEMNRQRFRRIPFIRPADQYKDPQSKKK
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 YLQNAIESRQARPTYATAMLQSLLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8119_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

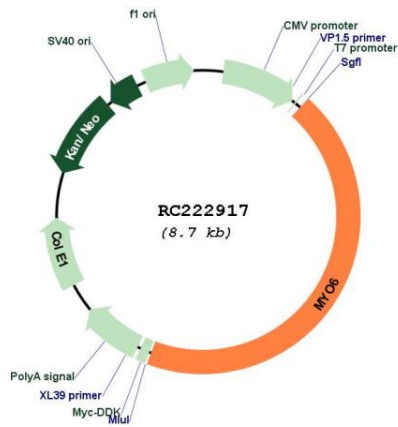


ACCN: NM_004999

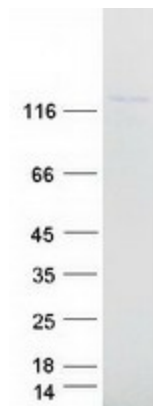
ORF Size: 3855 bp

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_004999.4
RefSeq Size:	8662 bp
RefSeq ORF:	3858 bp
Locus ID:	4646
UniProt ID:	Q9UM54
Cytogenetics:	6q14.1
Domains:	IQ, myosin_head
MW:	149.2 kDa
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 RC222917



Coomassie blue staining of purified MYO6 protein (Cat# [TP322917]). The protein was produced from HEK293T cells transfected with MYO6 cDNA clone (Cat# RC222917) using MegaTran 2.0 (Cat# [TT210002]).