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Product datasheet for SC337974

MYO6 (NM_001300899) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO6 (NM_001300899) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYO6
Synonyms:	DFNA22; DFNB37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001300899, the custom clone sequence may differ by one or more nucleotides

ATGGAGGATGGAAAGCCCGTTTGGGCGCCACACCCTACAGATGGATTTCAGATGGGCAATATTGTGGATA
TTGGCCCCGACAGCTTAACAATTGAACCCTTGAATCAGAAAGGCAAGACATTTTTGGCTCTCATAAACCA
AGTGTTTCCTGCAGAAGAGGACAGTAAAAAAGATGTGGAAGATAACTGTTCACTAATGTATTTAAATGAA
GCCACACTGCTCCATAATATCAAAGTTCGATATAGTAAAGACAGAATTTATACATATGTCGCCAACATTC
TGATTGCAGTGAATCCATACTTTGACATACCTAAAATATATTCTTCAGAAGCAATAAAGTCATATCAAGG
AAAATCTCTTGGGACAAGACCACCTCATGTCTTTGCAATTGCTGATAAAGCTTTTCGAGACATGAAGGTG
CTCAAGATGAGTCAGTCTATCATTGTATCTGGAGAATCAGGAGCCGGCAAAACAGAAAATACAAAATTTG
TTCTAAGATACCTGACTGAATCCTATGGAACAGGTCAAGATATTGATGACAGAATTGTTGAAGCTAACCC
ACTCCTAGAAGCCTTTGGAAATGCGAAGACTGTTCGCAACAATAATAGCAGTCGATTTGGGAAATTTGTA
GAAATACATTTTAATGAAAAGAGCTCAGTTGTTGGAGGATTTGTTTCACATTATCTCCTAGAGAAATCTA
GGATCTGTGTTCAAGGCAAAGAGGAAAGAAATTATCATATCTTTTATAGGTTGTGTGCTGGTGCTTCTGA
AGATATTAGAGAAAAACTTCATTTGAGTTCACCAGATAATTTTCGGTATTTAAACCGAGGCTGCACTAGA
TACTTTGCTAACAAAGAAACTGACAAACAGATTTTACAGAACCGCAAAAGTCCTGAGTACCTTAAGGCAG
GTTCTATGAAAGATCCTCTGCTAGATGACCATGGTGATTTTATTAGAATGTGCACGGCTATGAAAAAAAT
TGGTTTGGATGATGAAGAAAAGCTTGATCTCTTCCGGGTAGTAGCTGGCGTCCTGCACCTTGGAAATATT
GATTTTGAGGAAGCTGGCAGCACTTCAGGTGGTTGTAATCTGAAGAATAAATCTGCTCAGTCTTTGGAAT
ATTGTGCTGAATTACTGGGTTTGGACCAAGATGATCTTCGAGTAAGTTTGACCACAAGAGTCATGCTAAC
AACAGCAGGGGGCACCAAAGGAACAGTTATAAAGGTACCTCTGAAAGTGGAGCAAGCAAACAATGCTCGT
GATGCCCTGGCAAAGACAGTGTATAGCCATCTTTTTGATCATGTGGTAAACAGAGTAAATCAGTGTTTTC
CTTTTGAAACATCATCCTATTTTATTGGAGTCCTAGATATTGCTGGTTTTGAGTACTTTGAGCATAACAG
TTTTGAACAATTTTGCATCAACTATTGCAATGAAAAACTTCAACAATTTTTTAATGAAAGGATTCTGAAG
GAGGAACAAGAACTCTATCAAAAAGAAGGTTTAGGTGTTAATGAAGTGCATTATGTGGATAATCAGGACT
GTATAGATTTAATTGAAGCCAAATTAGTGGGAATACTGGATATTTTGGATGAAGAAAATCGCCTTCCCCA

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GCCAAGTGATCAACACTTTACATCTGCAGTTCACCAAAAGCACAAGGATCATTTTCGACTCACTATTCCC
AGAAAATCTAAGCTGGCAGTTCATAGGAATATCAGAGACGACGAAGGCTTCATTATCAGGCATTTTGCGG
GGGCAGTGTGCTATGAAACAACCCAGTTTGTGGAGAAAAATAATGATGCTTTACATATGTCTCTTGAATC
CTTAATATGTGAATCCAGAGATAAGTTTATACGGGAATTATTTGAATCATCCACAAATAACAACAAAGAT
ACTAAACAAAAAGCAGGAAAACTTAGCTTCATCAGCGTGGGAAACAAGTTTAAGACACAGTTAAATTTGC
TTCTGGATAAACTTCGAAGTACTGGAGCAAGCTTTATTCGTTGCATCAAACCTAACTTAAAGATGACAAG
CCACCACTTTGAAGGTGCTCAAATTCTGTCTCAGCTTCAGTGTTCAGGGATGGTGTCTGTTTTGGACTTG
ATGCAGGGTGGTTACCCATCACGAGCTTCATTTCATGAACTCTACAACATGTACAAAAAGTATATGCCAG
ATAAACTTGCAAGATTGGATCCAAGACTATTTTGTAAGGCTTTGTTTAAAGCTTTGGGCTTAAATGAAAA
TGACTACAAGTTTGGGTTAACCAAAGTATTTTTTAGACCTGGCAAGTTTGCAGAATTTGATCAGATCATG
AAGTCTGACCCTGACCACTTAGCAGAGTTGGTTAAAAGAGTCAATCACTGGCTCACATGCAGTCGCTGGA
AGAAAGTTCAGTGGTGCTCACTCTCAGTCATCAAATTGAAAAACAAAATAAAATATCGAGCTGAAGCCTG
CATTAAAATGCAAAAAACTATTCGAATGTGGCTTTGCAAGAGGAGACACAAACCTCGCATTGATGGTCTG
GTTAAGGTGGGCACACTGAAAAAACGACTTGATAAATTTAATGAGGTAGTCAGTGTGTTGAAAGATGGAA
AACCCGAGATGAATAAACAGATCAAGAATCTGGAAATTTCTATTGATACTTTGATGGCCAAAATTAAGTC
CACTATGATGACGCAGGAACAAATCCAGAAAGAATATGATGCACTGGTTAAAAGCTCAGAGGAACTCCTC
AGTGCATTACAGAAAAAAAAACAGCAGGAAGAGGAAGCAGAAAGGCTGAGGCGTATTCAAGAAGAAATGG
AAAAGGAAAGAAAAAGACGTGAAGAAGACGAAAAACGTCGAAGAAAGGAAGAGGAGGAAAGGCGGATGAA
ACTTGAGATGGAAGCAAAGAGAAAACAAGAAGAAGAAGAGAGAAAGAAAAGGGAAGATGATGAAAAACGC
ATTCAAGCTGAAGTGGAGGCACAGCTGGCCCGACAGAAGGAGGAGGAATCCCAACAGCAAGCAGTTCTGG
AGCAGGAGCGCAGGGACCGGGAGCTGGCCCTGAGGATTGCCCAGAGTGAAGCCGAGCTCATCAGTGATGA
GGCCCAGGCCGACCTGGCGCTGCGGAGAGGTCCTGCTGTACTAGCCACCAAAGCAGCTGCTGGTACTAAG
AAATATGATCTTAGTAAATGGAAATATGCAGAACTACGTGATACCATCAATACTTCTTGTGATATTGAGC
TCCTGGCAGCTTGCAGAGAAGAATTTCATAGGAGACTAAAAGTGTATCATGCTTGGAAATCTAAGAACAA
GAAGAGAAATACTGAAACAGAGCAACGTGCTCCAAAGTCTGTTACTGATTATGATTTTGCACCATTTTTG
AACAATTCACCTCAGCAAAACCCAGCAGCTCAGATTCCTGCCAGGCAGCGGGAGATTGAAATGAACCGAC
AGCAACGCTTCTTCCGCATCCCATTCATCCGCCCTGCCGACCAGTACAAAGACCCTCAGAGTAAGAAAAA
AGGCTGGTGGTATGCCCATTTTGATGGACCATGGATTGCCCGGCAAATGGAACTCCATCCTGACAAGCCA
CCCATCCTACTTGTGGCTGGTAAGGACGACATGGAGATGTGTGAGCTGAATCTTGAGGAGACTGGCCTGA
CTCGGAAGCGTGGTGCTGAGATCTTGCCAAGACAGTTTGAAGAAATCTGGGAACGCTGTGGAGGCATCCA
GTACCTTCAGAATGCGATTGAGAGCAGACAGGCTCGGCCCACCTATGCAACAGCCATGCTGCAGAGTCTG
TTAAAGTAG

Restriction Sites: SgfI-MluI

ACCN: NM_001300899

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:	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_001300899.1, NP_001287828.1
RefSeq Size:	8609 bp
RefSeq ORF:	3789 bp
Locus ID:	4646
UniProt ID:	Q9UM54
Cytogenetics:	6q14.1
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] Transcript Variant: This variant (2) lacks two in-frame exons in the 3' coding region, compared to variant 1. It encodes isoform 2 which has a shorter C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.