

Product datasheet for **SC104993**

myosin heavy chain 9 (MYH9) (AK025393) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	myosin heavy chain 9 (MYH9) (AK025393) Human Untagged Clone
Tag:	Tag Free
Symbol:	myosin heavy chain 9
Synonyms:	BDPLT6; DFNA17; EPSTS; FTNS; MHA; NMHC-II-A; NMMHC-IIA; NMMHCA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK025393, the custom clone sequence may differ by one or more nucleotides

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AGTCAGTATTGTATATGAATTTCTGCCATGTGGTAGAAAGAGGGTGCCTGTCTTTGTACTCTGTGTGAA
CAGGCACACCTGTTTACCTGTCTTGGTTTCACCGTTTTATAGGAGTTGCAACAGAGGATGGCATTTTAC
ACTTACTTTTGTGCCTTCTCTGTGTAATTGGTCTGTGGCTGAGCTGTTTTTGTCTACTGTGTGTGT
GTGAAGATGTCCGACACCTAAACATTTTGCGGGAAGCTTTCCTGCTTTCCTGAGAGTGGTCTGTCTAG
CTCAGCTGTGGCTCCCAAGACTCCAATTTGCTTCTTTCTGGTGGGAGCAGCCAGGCACCTGGTTTCCCTC
TCGAATCACTTTGAGATGTGTGGGCTGTGCTGTGGCCGCCCTGGCTGGCCGGGCCCGCTGACCTCT
GCTTCTACCTCTGCCCAAGCGCGGGGACCTGCCGTTTGTGTGCCCGCCGAATGGCCGGAAAGGCG
CCGGGGATGGCTCCGACGAAGAGGTAGATGGCAAAGCGGATGGGGCTGAGGCCAAACCTGCCGAATAAGC
CTTTCTCCTGCAGCCTGAGATGGATGGACAGACAGACACCACAGCCTCCCCTCCAGACCCCGCAGCA
CGCCTCTCCCACCTTCTGGGACTGCTATGAACATGCCTCCTCCTGCCCTCCGCCCCGTCGCCCATCC
CGTTTCCCTCCAGGTGTGTTGAGGGCATTGGCTTCTCTGCTGCATCCCCTCCAGCTCCCTCCCTG
CTCAGAATCTGATACCAAGAGACAGGGCCCGGGCCAGGCAGAGAGCGACCAGCAGGCTCCTCAGCCCT
CTTTGCCAAAAAGCACAAAGATGTTGAGGCGAGCAGGGCAGGCCCCCGGGGAGGGGCCAGAGTTTCTAT
GAATCTATTTTTCTTCACTGAGGCTTTTGGTAGTCCGAGCCCCCGCAGTCTGCAGCCTCCCTGACGT
CTGCCACCAGCGCCCCACTCCTCCTCTTTCTTGTGTTTGAATCACACGTGGTGACCTCACACACC
TCTGCCCTTGGGCTCCCACTCCCATGGCTCTGGGCGGTCCAGAAGGAGCAGGCCCTGGGCTCCACCT
CTGTGCAGGGCACAGAAGGCTGGGGTGGGGGAGGAGTGGATTCTCCCACCCTGTCCCAGGCAGCGCC
ACTGTCCGCTGTCTCCCTCCTGATTCTAAAATGTCTCAAGTGAATGCCCTCCCTCCCTTTACCGAGG
ACAGCTGCCTCTGCCACAGCAAGGCTGTGGGGTCAAGCTGAAAAGGCCAGCAGCCTTCCAGTGGCTTC
TCCAACACTCTTGGGGACCAAATATATTAATGGTTAAGGGACTTGTCCAAGTCTGACAGCCAGAGCG
TTAGAGGGGCCAGCGCCCTCCAGCGATCTTGTGTCTACTCTAGGACTGGGCCGAGGGTGGTTTACC
TGCACCGTTGACTCAGTATAGTTAAAAATCTGCCACCTGCACAGGTATTTTTGAAAAGCAAAAATAAGTT
TTCTTTTTTCCCTTTCTTGAATAAATGATAAAATCCGAGTCTTCTCACTGCCTTTGTTTGAAGAG
AGTAGCTCGTCTCACTGGTCTACACTGGTTGCCGAATTTACTTGTATTCTCACTGTTTGTATATGCT
GCATTGAGACTTACGGCAAGAAGGCATTTTTTTTTTTTTAAAGGAAACAACTCTCAAATCATGAAGTGA
TATAAAGCTGCATATGCCTACAAGCTCTGAATTCAGGTCAGTCCAGTGTGTGCACAAAGGAGTGAGTGA
ACTCCCACCCTACCCCTTTTTATATAATAAAAGTGCCTTAGCATGTGTGCAGCTGTCCACTACAG
TAATCTGTTTACAGATGTTTTCACTGAGCATACAATAAAGAGAACCATGTGCTAAAAAAAAAAAAA
AAAAAAAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK025393 unedited

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CCCAGCTCGTTTTTGTATACGACTCATATAGGCGCCTGCGAATCGGCACCAGGTGCGCC
GANAAAACTGAAGGAGTGTCTGTCAGGTGGATGACGAGCGGAGGAACGCCGAGCAGTAC
AAGGACCAGGCCGACAAGGCATCTACCCGCTGAAGCAGCTCAAGCGGCAGCTGGAGGAG
GCTCGAAGAGGAGGCCAGCGGGCAACGCCTCCCGCGGAAACTGCAGCGCAGCTGGA
GGACGCCACTGAGACGGCCGATGCCATGAACCGCGAAGTCAAGTCCCTAAAGAACAAGCT
CAGGCGCGGGGACCTGCCGTTTGTGTCGTCGCCCGCCGAATGGCCCGGAAAGGCGCCGGGA
TGGCTCCGACGAAGAGGTAGATGGCAAAGCGGATGGGGCTGAGGCCAAACCTGCCGAATA
AGCCTCTTCTCCTGCAGCCTGAGATGGATGGACAGACAGACACCACAGCCTCCCCTTCC
AGACCCCGCAGCAGCCTCTCCCACCTTCTTGGGACTGCTGTGAACATGCCTCCTCCTG
CCCTCCGCCCCGTCGCCCATCCCGTTTCCCTCCAGGTGTTGTTGAGGGCATTGCTTTC
CTCTGCTGCATCCCCTTCCAGCTCCCTCCCTGCTCAGAATCTGATACCAAGAGACATG
GCCCGGGCCAGGCAGAGAGCCACCAGCAGGCTCCTCAGCCCTCTTGGCAAAAAGCACA
AGATGTTGAGGCGAGCAGGGCAGGCCCCCGGNGAGGGGCTCAGAGNTTCTATGAATCTA
TGTTTCTTCACTGAGGCTNTTTGGTAGTCGNAGCCCCCGCAGTCGTGAGCCTCCCTG
ACGTATGGCAGCAGNGCCNCACTCTCTNCTTTTTTGTGATCCAACACCACGTGGGG
ACTNACACACCTTGCCCATGGGCTNCCACTCT
    
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Gene Summary:

This gene encodes a conventional non-muscle myosin; this protein should not be confused with the unconventional myosin-9a or 9b (MYO9A or MYO9B). The encoded protein is a myosin IIA heavy chain that contains an IQ domain and a myosin head-like domain which is involved in several important functions, including cytokinesis, cell motility and maintenance of cell shape. Defects in this gene have been associated with non-syndromic sensorineural deafness autosomal dominant type 17, Epstein syndrome, Alport syndrome with macrothrombocytopenia, Sebastian syndrome, Fechtner syndrome and macrothrombocytopenia with progressive sensorineural deafness. [provided by RefSeq, Dec 2011]