

## Recombinant Human MYH9, His-tagged

**Cat. No.** MYH9-29659TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 1130-1960 of Human non-muscle Myosin IIA with N terminal His tag; 831 amino acids, 110kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1130-1960 a.a.
<b>Description</b>	This gene encodes a myosin IIA heavy chain that contains an IQ domain and a myosin head-like domain. The protein is involved in several important functions, including cytokinesis, cell motility and maintenance of cell shape. Defects in MYH9 are the cause of non-syndromic sensorineural deafness autosomal dominant type 17, Epstein syndrome, Alport syndrome with macrothrombocytopenia, Sebastian syndrome, Fechtner syndrome and macrothrombocytopenia with progressive sensorineural deafness.
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	In the kidney, expressed in the glomeruli. Also expressed in leukocytes.
<b>Form</b>	Lyophilised:Reconstitute with 51 µl aqua dest.
<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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**Storage** Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

**Sequences of amino acids**

AEKQKRD LGEELEALKTELED TLDSTAAQQELRSKREQEV NILKKTLEEEAKTHEAQ  
 IQEMRQKHSQAVEELAEQLEQ TKRVKANLEKAKQTLENERGELANEV KVLLQGKG  
 DSEHKR KKVEAQLQELQVKFNEGERV RTELADKVTKLQVELDNV TGLLSQSDSKS  
 SKLTKDFSALESQ LQDTQELLQEENRQ KLSLSTK LKQVEDEKNSFREQL EEEEEAK  
 HNLEKQIATLH AQVADMKKK MEDSVGCLET AEEVKRKLQKDLEGLSQRH EEKVAA  
 YDKLEKTKTRLQ QELDDLLVLDLHQRQSACNL EKKQKKFDQLLAE EKTISAKYAEER  
 DRAEAEAREKETKAL SLARALEEAMEQK AELERLNKQFRTEMEDLMSSKDDVG KS  
 VHELEKSKRALEQQVEEMKTQ LEELEDELQATEDAKLRLEVNLQAMKAQFERDLQG  
 RDEQSEEKKKQLVRQVREME AELEDERKQRSM AVAARKKLEMDLKDLEAHIDSAN  
 KNR DEAIKQLRKLQAQMKDCMRE LDDTRASREEILAQAKENEK KLKSMEAEMIQLQ  
 EELAAAERAKRQAQQRDEL ADEIA NSSGKGALALEEKRRLEARIAQLEEELEEEQ  
 GNTLIN DRLKKANLQIDQINTDLN LERSHAQKNENARQQLERQNKE LKVKLQEME  
 GTVKSKYKASITALEAKIAQ LEEQLDNET KERQAACKQVRRTEK KLDVLLQVDDER  
 RNAEQYKDQA DKASTRLKQLKRQ LEEAEEEEAQ RANASRRKLRQRELEDATE TADA  
 MNREVSSLKNKLRRGDLPFV VPRRMARKGAGDGS DEEVDGKADGAEAKPAE

**Sequence Similarities** Contains 1 IQ domain. Contains 1 myosin head-like domain.

## GENE INFORMATION

**Gene Name** MYH9 myosin, heavy chain 9, non-muscle [ Homo sapiens ]

**Official Symbol** MYH9

**Synonyms** MYH9; myosin, heavy chain 9, non-muscle; DFNA17, myosin, heavy polypeptide 9, non muscle; myosin-9; EPSTS; FTNS; MHA; NMHC II A; NMMHCA; nonmuscle myosin heavy chain II A;

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<b>Gene ID</b>	4627
<b>mRNA Refseq</b>	NM_002473
<b>Protein Refseq</b>	NP_002464
<b>MIM</b>	160775
<b>Uniprot ID</b>	P35579
<b>Chromosome Location</b>	22q13.1
<b>Pathway</b>	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Regulation of actin cytoskeleton, organism-specific biosystem; Regulation of actin cytoskeleton, conserved biosystem; Salmonella infection, organism-specific biosystem;
<b>Function</b>	ADP binding; ATP binding; ATP binding; ATPase activity; actin binding;

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