

Recombinant Human MYH9, His-tagged

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

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1130-1960 of Human non-muscle Myosin IIA with N terminal His tag; 831 amino acids, 110kDa.
Species	Human
Source	E.coli
ProteinLength	1130-1960 a.a.
Description	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.
Conjugation	HIS
Tissue specificity	In the kidney, expressed in the glomeruli. Also expressed in leukocytes.
Form	Lyophilised:Reconstitute with 51 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 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 TKRVKANLEKAKQTLENERGELANEVKVLLQGKG DSEHKR KKVEAQLQELQVKFNEGERVTELADKVTKLQVELDNV TGLLSQSDSKS SKLTKDFSALSQLQDTQELLQEENRQ KLSLSTKLKQVEDEKNSFREQLLEEEEEEAK HNLEKQIATLH AQVADMKKKMEDSVGCLETAAEVKRKLQKDLEGLSQRH EEKVAA YDKLEKTKTRLQQELDDLVDLDHQRQSACNL EKKQKKFDQLLAEKKTISAKYAEER DRAEAEAREKETKAL SLARALEEAMEQKAELERLNKQFRTEMEDLMSSKDDVG KS VHELEKSKRALEQQVEEMKTQLEEEDELQATEDAKLRLEVNLQAMKAQFERDLQG RDEQSEEKKKQLVRQVREME AELEDERKQRSMAVAARKKLEMDLKDLEAHIDSAN KNR DEAIKQLRKLQAQMKDCMRELD DTRASREEILAQAKENK KLKSMEAEMIQLQ EELAAAERAKRQAQQERDELADEIA NSSGKGALALEEKRRLEARIAQLEEEEEEQ GNTLIN DRLKKANLQIDQINTDLNLSHAQKNENARQQLERQNKE LKVKLQEME GTVKSKYKASITALEAKIAQLEEQLDNET KERQAACKQVRRTEKKLKDVLQVDDER RNAEQYKDQA DKASTRKQLKRQLEEAEEEAQRANASRRKLQRELEDATE TADA MNREVSSLKNKLRRGDLPFVPRRMARKGAGDGS 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;

Gene ID	4627
mRNA Refseq	NM_002473
Protein Refseq	NP_002464
MIM	160775
Uniprot ID	P35579
Chromosome Location	22q13.1
Pathway	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;
Function	ADP binding; ATP binding; ATP binding; ATPase activity; actin binding;