

Product datasheet for **RC213189**

MYPN (NM_032578) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYPN (NM_032578) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYPN
Synonyms:	CMD1DD; CMH22; MYOP; NEM11; RCM4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213189 representing NM_032578 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC213189 representing NM_032578
 Red=Cloning site Green=Tags(s)

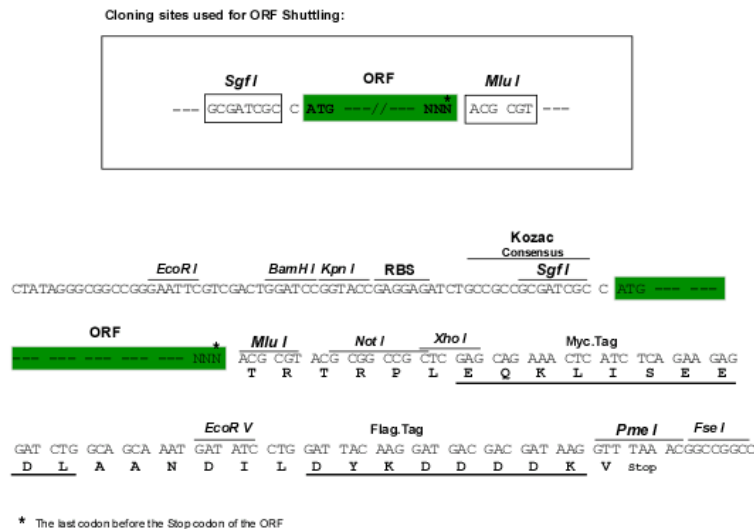
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Chromatograms: https://cdn.origene.com/chromatograms/mk8024_g12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

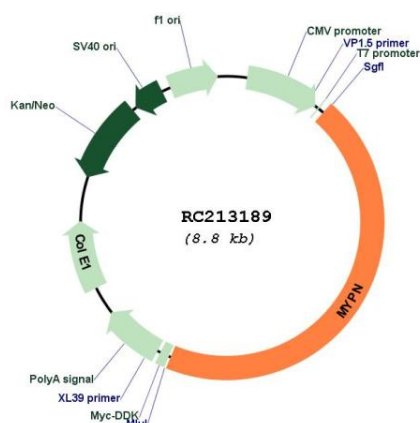


ACCN: NM_032578

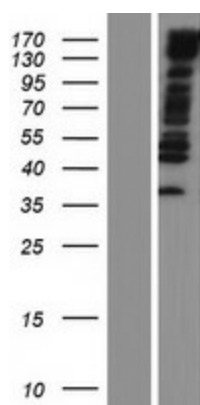
ORF Size: 3960 bp

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_032578.1 , NP_115967.1
RefSeq Size:	5707 bp
RefSeq ORF:	3963 bp
Locus ID:	84665
UniProt ID:	Q86TC9
Cytogenetics:	10q21.3
MW:	145.1 kDa
Gene Summary:	Striated muscle in vertebrates comprises large proteins which must be organized properly to contract efficiently. Z-lines in striated muscle are a sign of this organization, representing the ends of actin thin filaments, titin, nebulin or nebulin and accessory proteins required for structure and function. This gene encodes a protein which interacts with nebulin in skeletal muscle or nebulin in cardiac muscle and alpha-actinin. In addition, this gene product can interact with a protein with the I-band indicating it has a regulatory as well as structural function. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011]

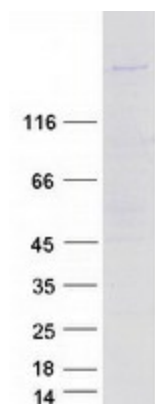
Product images:



Circular map for RC213189



Western blot validation of overexpression lysate (Cat# [LY410033]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213189 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MYPN protein (Cat# [TP313189]). The protein was produced from HEK293T cells transfected with MYPN cDNA clone (Cat# RC213189) using MegaTran 2.0 (Cat# [TT210002]).