

## Product datasheet for **RC217720L3V**

### MYBPC3 (NM\_000256) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	MYBPC3 (NM_000256) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MYBPC3
Synonyms:	CMD1MM; CMH4; cMyBP-C; FHC; LVNC10; MYBP-C
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_000256
ORF Size:	3822 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC217720).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_000256.2</a>
RefSeq Size:	4200 bp
RefSeq ORF:	3825 bp
Locus ID:	4607
UniProt ID:	<a href="#">Q14896</a>
Cytogenetics:	11p11.2
Protein Families:	Druggable Genome
Protein Pathways:	Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)



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**MW:** 140.8 kDa

**Gene Summary:** MYBPC3 encodes the cardiac isoform of myosin-binding protein C. Myosin-binding protein C is a myosin-associated protein found in the cross-bridge-bearing zone (C region) of A bands in striated muscle. MYBPC3, the cardiac isoform, is expressed exclusively in heart muscle. Regulatory phosphorylation of the cardiac isoform in vivo by cAMP-dependent protein kinase (PKA) upon adrenergic stimulation may be linked to modulation of cardiac contraction. Mutations in MYBPC3 are one cause of familial hypertrophic cardiomyopathy. [provided by RefSeq, Jul 2008]