

## Product datasheet for **RC222917L4V**

### MYO6 (NM\_004999) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	MYO6 (NM_004999) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MYO6
Synonyms:	DFNA22; DFNB37
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_004999
ORF Size:	3855 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222917).
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_004999.3</a>
RefSeq Size:	8662 bp
RefSeq ORF:	3858 bp
Locus ID:	4646
UniProt ID:	<a href="#">Q9UM54</a>
Cytogenetics:	6q14.1
Domains:	IQ, myosin_head
MW:	149.2 kDa



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**Gene Summary:**

This gene encodes a reverse-direction motor protein that moves toward the minus end of actin filaments and plays a role in intracellular vesicle and organelle transport. The protein consists of a motor domain containing an ATP- and an actin-binding site and a globular tail which interacts with other proteins. This protein maintains the structural integrity of inner ear hair cells and mutations in this gene cause non-syndromic autosomal dominant and recessive hearing loss. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014]