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Product datasheet for RC215401L4V

MYO3A (NM_017433) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	MYO3A (NM_017433) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MYO3A
Synonyms:	DFNB30
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_017433
ORF Size:	4848 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC215401).
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.
RefSeq:	NM_017433.3
RefSeq Size:	5597 bp
RefSeq ORF:	4851 bp
Locus ID:	53904
UniProt ID:	Q8NEV4
Cytogenetics:	10p12.1
Protein Families:	Druggable Genome, Protein Kinase
MW:	186 kDa

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Gene Summary: The protein encoded by this gene belongs to the myosin superfamily. Myosins are actin-dependent motor proteins and are categorized into conventional myosins (class II) and unconventional myosins (classes I and III through XV) based on their variable C-terminal cargo-binding domains. Class III myosins, such as this one, have a kinase domain N-terminal to the conserved N-terminal motor domains and are expressed in photoreceptors. The protein encoded by this gene plays an important role in hearing in humans. Three different recessive, loss of function mutations in the encoded protein have been shown to cause nonsyndromic progressive hearing loss. Expression of this gene is highly restricted, with the strongest expression in retina and cochlea. [provided by RefSeq, Jul 2008]