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Product datasheet for RC238226

MYO1D (NM_001303280) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO1D (NM_001303280) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYO1D
Synonyms:	myr4; PPP1R108
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238226 representing NM_001303280 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGAGCAGGAGAGCCTGGAATTCGGCAAGGCAGACTTCGTGCTGATGGACACCGTCTCCATGCCCG AGTTCATGGCCAACCTCAGGCTCAGATTTGAAAAAGGGCGCATCTATACGTTCATTGGAGAAGTCGTCGT TTCTGTGAACCCTTACAAGTTGTTGAACATCTATGGAAGAGACACAATTGAGCAGTATAAAGGCCGTGAG CTGTATGAGAGACCGCCTCACCTTTTTGCTATTGCGGATGCTGCTTACAAGGCTATGAAGAGGCGATCAA AAGACACTTGTATTGTGATATCAGGGGAAAGTGGAGCTGGTAAAACGGAAGCCAGTAAGTACATTATGCA GTATATTGCGGCCATCACCAACCCCAGTCAGAGAGCAGAGGTTGAAAGAGTGAAGAATATGTTGCTTAAG TCCAACTGTGTTTTGGAAGCTTTTGGAAATGCCAAAACCAACCGTAATGACAACTCAAGCAGGTTTGGAA AATACATGGATATCAACTTTGACTTCAAGGGTGACCCTATTGGTGGGCATATCAATAACTACTTACTAGA AAAGTCTCGAGTGATTGTGCAACAGCCAGGAGAAAGAAGCTTTCATTCTTTCTATCAGCTACTCCAAGGA GGTTCAGAACAAATGCTACGCTCTCTACATCTCCAGAAATCCCTTTCATCCTACAACTATATTCATGTGG GAGCTCAATTAAAGTCTTCTATCAATGATGCTGCCGAATTCAGAGTTGTTGCTGATGCCATGAAAGTCAT TGGCTTCAAACCTGAGGAGATCCAAACAGTGTATAAGATTTTGGCTGCTATTCTGCACTTGGGAAATTTA AAATTTGTAGTAGATGGTGACACGCCTCTTATTGAGAATGGCAAAGTAGTATCTATCATAGCAGAATTGC TCTCTACTAAGACAGATATGGTTGAGAAAGCCCTTCTTTACCGGACTGTGGCCACAGGCCGTGACATCAT TGACAAGCAGCACACAGAACAAGAGGCCAGCTACGGCAGAGACGCCTTTGCCAAGGCAATATATGAGCGC CTTTTTTGTTGGATCGTTACTCGCATCAATGATATTATTGAGGTCAAGAACTATGACACCACAATCCATG GGAAAAACACTGTTATTGGTGTCTTGGATATCTATGGCTTTGAAATCTTTGACAACAACAGTTTTGAACA ATTCTGTATCAATTACTGCAATGAGAAACTGCAGCAGCTATTTATTCAGCTGGTTCTGAAGCAAGAACAA GAGGAATACCAGCGGGAAGGGATCCCCTGGAAACATGTGGGATTGCTA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

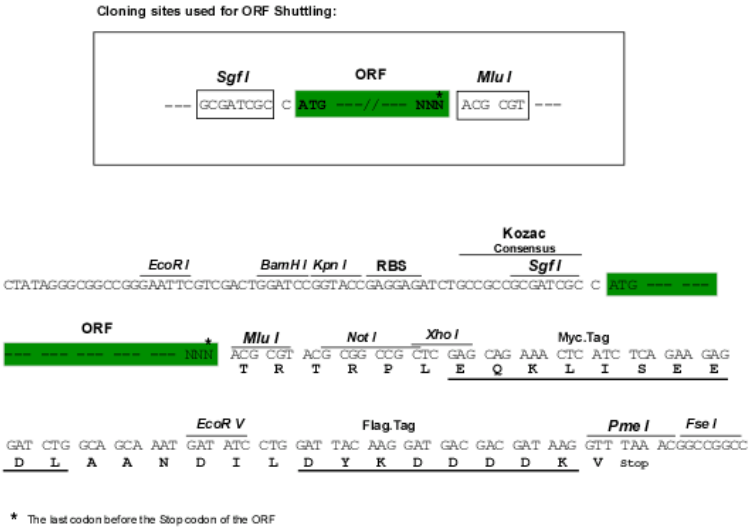
>RC238226 representing NM_001303280
Red=Cloning site Green=Tags(s)

MAEQESLEFGKADFVLMDTVSMPEFMANLRLRFEKGRIYTFIGEVVVSVNPYKLLNIYGRDTIEQYKGRE
LYERPPHLFAIADAAYKAMKRRSKDTCIVISGESGAGKTEASKYIMQYIAAITNPSQRAEVERVKNMLLK
SNCVLEAFGNAKTNRNDNSSRFGKYMDINFDFKGDPIGGHINNYLLEKSRVIVQQPGERSFHSFYQLLQG
GSEQMLRSLHLQKSLSSYNYIHVGAQLKSSINDAAEFRVVADAMKVIGFKPEEIQTVYKILAAILHLGNL
KFVVDGDTPLIENGKVVSIIAELLSTKTDMVEKALLYRTVATGRDIIDKQHTEQEASYGRDAFAKAIYER
LFCWIVTRINDIIEVKNYDTTIHGKNTVIGVLDIYGFEIFDNNSFEQFCINYCNEKLQQLFIQLVLKQEQ
EEYQREGIPWKHVGLL

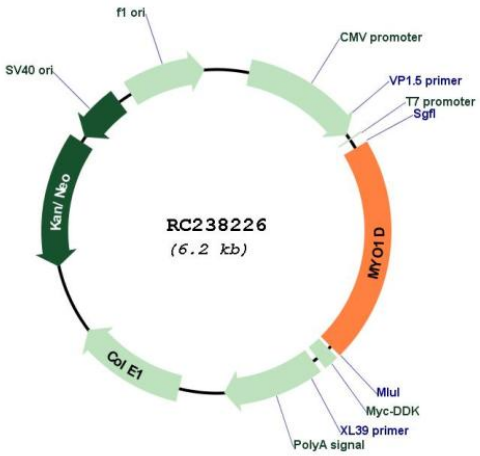
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001303280

ORF Size:	1308 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.
RefSeq:	NM_001303280.2
RefSeq Size:	1927 bp
RefSeq ORF:	1311 bp
Locus ID:	4642
Cytogenetics:	17q11.2
MW:	50.2 kDa
Gene Summary:	Unconventional myosin that functions as actin-based motor protein with ATPase activity (By similarity). Plays a role in endosomal protein trafficking, and especially in the transfer of cargo proteins from early to recycling endosomes (By similarity). Required for normal planar cell polarity in ciliated tracheal cells, for normal rotational polarity of cilia, and for coordinated, unidirectional ciliary movement in the trachea. Required for normal, polarized cilia organization in brain ependymal epithelial cells (By similarity).[UniProtKB/Swiss-Prot Function]