OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC225152

Myo10 (NM_019472) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myo10 (NM_019472) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myo10
Synonyms:	AW048724; D15Ertd600e; mKIAA0799; myosin-X
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225152 representing NM_019472 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGACAGCTTCTTTCCCGAGGGAGCACGGGTCTGGCTAAGAGAAAATGGCCAGCATTTTCCGAGTACTG TAAATTCCTGTGCAGAAGGCGTCGTGGTCTTCCAGACAGACTATGGGCAGGTGTTCACCTACAAGCAGAG TACAATCACCAACCAGAAGGTGACAGCTATGCACCCCCTGCACGAGGAGGGCGTGGACGACATGGCTTCC CTGGCCGAGCTCCATGGGGGCTCCATCATGTACAACCTTTTCCAGCGCTACAAAAGGAACCAAATCTATA CCTACATCGGCTCCATCATCGCGTCAGTGAACCCCTACCAGCCCATCGCTGGCCTGTACGAGCGCGCCAC CATGGAGGAGTACAGCAGGTGCCACCTGGGCGAGCTTCCACCGCACATCTTCGCCATTGCCAACGAATGC TATCGCTGCTTGTGGAAGCGCCATGACAACCAATGTGTCCTCATCAGCGGGGAAAGCGGAGCTGGGAAAA CGGAAAGCACCAAGCTGATCCTCAAGTTCCTGTCCGTCATCAGCCAGCAGACTTTGGACCTGGGCCTGCA GGAGAAGACATCCAGCGTCGAGCAAGCCATCCTTCAAAGCAGCCCAATCATGGAAGCATTTGGCAATGCG AAGACAGTATACAACAACAACTCCAGTCGCTTCGGGAAGTTTGTTCAGCTGAACATCTGCCAGCAGGGAA ACATTCAGGGAGGAAGAATTGTAGATTATTTATTAGAAAAAAACCGAGTAGTGAGGCAGAATCCCGGGGA GAGGAATTATCACATATTCTATGCACTGCTGGCAGGGCTGGACCAGGGAGAGCGAGAAGAATTTTATTTA TCTTTGCCAGAAAACTACCATTACTTGAATCAGTCTGGGTGTACGGAAGACAAGACGATCAGCGACCAGG AATCCTTCAGACAAGTTATCACGGCAATGGAAGTCATGCAATTCAGCAAGGAGGAAGTTCGGGAAGTTTT GAGGTTGCTGGCGGGAATTCTGCATCTCGGCAACATAGAGTTTATCACTGCTGGAGGGGCGCAGATTCCC TTCAAAACAGCTTTGGGTAGGTCTGCGGACTTGCTTGGGCTGGACCCAACGCAGCTCACAGATGCACTGA CCCAGAGATCCATGATCCTCAGGGGAGAAGAGATCCTGACGCCTCTCAGTGTCCAGCAGGCCGTAGATAG CAGAGACTCATTGGCCATGGCACTTTATGCTCGCTGCTTTGAGTGGGTGATCAAGAAGATCAACAGCCGG ATCAAAGGCAAAGACGACTTCAAATCCATCGGCATCCTTGACATCTTCGGATTTGAAAACTTCGAGGTTA ACCACTTTGAGCAGTTCAATATCAACTATGCAAATGAAAAGCTTCAGGAATACTTCAACAAACACATTTT TTCCTTAGAACAACTAGAATATAGCAGGGAGGGATTGGTGTGGGAAGATATTGACTGGATAGACAATGGA GAATGTCTAGACCTGATCGAGAAGAAACTTGGCCTCCTCGCCTTGATCAATGAAGAGAGCCATTTTCCTC

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ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_019472

Insert Size: 6189 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_019472.2, NP_062345.2

RefSeq Size: 8098 bp

RefSeq ORF: 6189 bp

Locus ID: 17909

UniProt ID: F8VQB6

Cytogenetics: 15 9.36 cM

Gene Summary: Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. MYO10 binds to actin filaments and actin bundles and functions as plus end-directed motor. The tail domain binds to membranous compartments containing phosphatidylinositol 3,4,5-trisphosphate or integrins, and mediates cargo transport along actin filaments (By similarity). Regulates cell shape, cell spreading and cell adhesion. Stimulates the formation and elongation of filopodia. May play a role in neurite outgrowth and axon guidance. In hippocampal neurons it induces the formation of dendritic filopodia by trafficking the actin-remodeling protein VASP to the tips of filopodia, where it promotes actin elongation. Plays a role in formation of the podosome belt in osteoclasts.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).