

Product datasheet for MC223584

Myo1e (NM_181072) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myo1e (NM_181072) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myo1e
Synonyms:	2310020N23Rik; 9130023P14Rik; AA407778; myosin-1e; myr 3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223584 representing NM_181072 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGCAGCAAAGGCGCCTACCGGTACCATTGGCAGAGCCACAATGTCAAGCACAGTGGTGTGGACGACA
 TGGTTCTACTGTCCAAGATCACAGAGAGCTCCATTGTAGAGAACCTGAAGAAGAGATACATGGACGACTA
 TATTTTACATATATAGGGTCTGTATTAATCTCTGTCAACCCATTCAAGCAAATGCCATATTTGGAGAA
 AAAGAAGTCGAAATGTACCAAGGAGCGGCACAGTATGAGAACCCGCTCATATCTATGCCCTTGCTGATA
 GTATGTACAGAAACATGATCATCGACAGAGAGAACCAAGTGTGTCATCATCAGCGGTGAAAGTGGTCTGG
 AAAGACAGTGGCTGCCAAGTACATTATGAGCTATGTCTCCAGAGTGTCTGGAGGAGGCCCAAGGTCCAG
 CATGTGAAGGACATCATCCTTCAATCCAACCCGCTCCTGGAGGCCTTCGGAACGCCAAGACAGTGCGCA
 ACAACAACTCCAGCCGATTTGGAAAATACTTTGAAATCCAGTTCAGTCCAGGTGGGGAACCATGGTGG
 CAAGATCTCCAATTCCTTCTGGAAAAGTCCAGAGTGGTATGCGGAACCCGGGGGAACGGAGCTCCAC
 ATATTCTACCAGCTCATTGAGGGTGCCTCTCCAGAGCAGAAGCAAAGCCTTGGCATCACCAGCATGGACT
 ACTATTACTACCTGAGCCTCTCGGGTCTACAAGGTGGATGACATTGATGACAAGCGGGATTTCCAGGA
 AACCTGCACGCCATGAATGTGATTGGAATCTTCTCGGAAGAGCAGACTCTCGTGTTCAGATTGTGGCT
 GGAATTCCTCACTTGGGAAACATCAGTTCAAAGAAGTGGCAACTATGCCCGCTGGAGAGTGAAGAAT
 TTTTGGCTTTTCTGCGTATCTGCTGGGTATAAACCAAGACCGGTTAAAGAGAGAAGCTAACGAGCCGCCA
 GATGGACAGTAAGTGGGAGGAAAGTCAAGTCCATCCATGTGACCCCTAACGTGGAGCAGGCTGCTAC
 ACCAGGGACGCGCTCGCAAGGCCCTGCACGCACGAGTCTTTGATTTCTGGTAGATTCTATCAATAAAG
 CCATGGAGAAGGACACGAGGAGTACAACATTGGAGTCTGGACATCTATGGCTTTGAAATATTTTCAGAA
 AAATGGCTTTGAGCAGTTCTGCATCAATTTCTGTTAACGAAAAATTACAGCAGATTTTATTGAGCTGACG
 CTAAGAGCAGAGCAGGAAGAATACGTTCAAGGAGGAATAAGATGGACACCCATTGAATATTTCAATAATA
 AAATCGTGTGTGACCTCATAGAGAGCAAAGTCAACCTCTGGGATTATGAGCATCTGGATGACGTGTG
 CGCCACCATGCATGCTGTGGGTGAGGGGCTGACCAGACTCTGCTACAGAAGCTCCAGATGCAGATCGGG


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AGCCATGAGCACTTCAACAGCTGGAACCAAGGCTTCATCATTCACCACTACGCTGGGAAGGTTTCCTATG
 ACATGGACGGCTTCTGCGAAAGGAACCGGGATGTGCTTTTCATGGACCTGATTGAACTCATGCAGAGCAG
 TGAGCTGCCTTTTATAAAGTCTTTATTTCTGAAAACCTGCAAGCTGACAAGAAAGGGCGCCCAACGACC
 GCAGGAAGCAAAATAAGAAACAAGCAACGACCTGGTGAGCACCTGATGAAATGCACACCCCACTACA
 TTCGCTGCATAAAACCAACGAAACCAAGAAGCCTAAAGACTGGGAGGAGAGCAGAGTGAAGCATCAAGT
 GGAGTACCTGGGTCTCAAAGAAAACATCCGAGTGAGAAGAGCTGGTTATGCTTATCGGCGTGTCTCCAG
 AAGTTTCTACAGAGGTATGCCATTCTGACCAAGCTACCTGGCCTGTGTGGAGAGGAGATGAGAAACAAG
 GTGTCTCCATCTACTGCAGTCTGTCAACATGGACAGCGACCAAGTTCAGCTTGGGAGAAGTAAAGTGTT
 CATCAAAGCCCCAGAGTCTCTGTTTCTTAGAAGAGATGAGAGAGAGAAAGTACGATGGTTACGCACGT
 GTGATACAGAAAACATGGAGGAAGTTCGTGGCCCGCAAGAAATATGTTCAAATGAGAGAAGAAGCCTCAG
 ACCTGCTGTTGAACAAGAAGGAGAGGAGGAGAAACAGCATCAACCGAAACTTCATCGGGGACTACATCGG
 GATGGAGGAGCGCCCGAACTGCAGCAGTTTGTAGGCAAGAGGGAGAAGATTGACTTTGCTGACACAGTC
 ACCAAGTACGACAGGAGTTCAAGGGTGTCAAGCGAGACCTGCTGCTAACCCCAAGTGTGTACTTAA
 TTGGAAGGAGAAGGTGAAGCAAGGCCAGACAAAGGTGTTGTGAAGGAAGTCTGAAGCGGAGGATCGA
 GGTGGAAGGATCCTGTCCGTGTCCCTCAGTACCATGCAGGATGACATCTTCATTCTCCACGAGCAAGAA
 TATGACAGTTTGTGAGTCCGTCTTTAAACGGAGTTTCTGAGCCTCTTAGCAAAGCGATACGAGGAAA
 AAACCCAGAAGCAACTACCTCTGAAATTGAGCAATACCCTTGAAGTTGAAAAAGGAGAAGTGGGG
 TCCCTGGAGTGCAGGGGGCTCCCGCAAGTGCAGTTCCACCAAGGCTTCGGTGACCTGGCTATCCTCAAG
 CCCAGCAACAAAGTGTGTCAGGTGAGCATCGGACCCGGGCTGCCAAGAACTCCCGTCTACCAGAAGAA
 ACACCGTCACCAAGCAGAGGGTATCCAGGTGGAATAAGAAACAATTACCGATGAGAGTGGCCCTGCTCC
 CCCAGGATGCCATCAAACGGAGTCATACGAAACAGTTTGTGCCTCTCCCATGCCTTTGGAACCCAG
 AGGTCCAATCAGAAAAGCCTGTACACCTCTATGGCCCGCCACCTTGCCAAGGCAACAGTCCACCGGT
 CGGATCGATTGTCTCAGACGCCAGAGAGCCTGGATTTCCTCAAGGTCCCGGACCGGGTGTGCTGGAGT
 CCGAAGACAAACGAGCAGCCGGCTCCCCAGCAGGGGGGACACCAAGCCTCAACCCCAAGCCTAAGCCT
 CAGGTGCCACAGTGCAAGGCCTTGATGCCTATGATGCTCAGGACACGGACGAAGTCAAGTTCACGCCA
 ACGATATTATTGATATTATTAAGAAGACCTTCTGGCTGGTGGACGGTAGACTACGAGGCAAGCAGGG
 CCTGTTTCTCAACTACGTACCAAGATCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_181072
- Insert Size:** 3324 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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_181072.3 , NP_851417.2
RefSeq Size:	4944 bp
RefSeq ORF:	3324 bp
Locus ID:	71602
UniProt ID:	E9Q634
Cytogenetics:	9 39.41 cM
Gene Summary:	Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Their highly divergent tails bind to membranous compartments, which are then moved relative to actin filaments. Binds to membranes containing anionic phospholipids via its tail domain (By similarity). Required for normal morphology of the glomerular basement membrane, normal development of foot processes by kidney podocytes and normal kidney function. In dendritic cells, may control the movement of class II-containing cytoplasmic vesicles along the actin cytoskeleton by connecting them with the actin network via ARL14EP and ARL14 (By similarity).[UniProtKB/Swiss-Prot Function]