

## Product datasheet for RR211197

### Myo1c (NM\_023092) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Myo1c (NM\_023092) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Myo1c  
**Synonyms:** Myr2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR211197 representing NM\_023092  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCGCTACCGGGCGTCGGCCCTGGGCAGTGACGGGTACGAGTGACCATGGAGAGCGCCTTGACTGCC  
 GAGACCGGGTGGGGTGAAGACTTTGTTCTGCTGGAGAACTTCACCAGTGAGGCTGCCTTCATTGAGAA  
 CCTCCGGCGTCGATTCGGGAGAACCTCATTTATACCTACATTGGCCCTGTCCTGGTCTCTGTCAACCC  
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 CGCCTCATCTGTTTGCAGTGGCTGACACTGTATACCGGGCGCTTCGTAAGTGGAGCGTGGGACCAAGCAGT  
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 TGACTTCAAGGGTGCCCTGTGGGAGGCCACATTCTCAGTTACCTCCTGGAGAAGTCTCGAGTGGTACAC  
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 GTCGCTGGGCTTGGAACGGAACCCAGAGCTACTTGTACCTGGTGAAGGGCCAGTGTGCCAAGTCTC  
 CTCCATCAATGACAAGAGTACTGGAAGGTTGTGAGGAAGGCGCTGTAGTCACTTCACTGAGGAT  
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 TATTGCAATGAGAAGCTGCAGCAGCTTTCATTGAGCTGACTCTCAAGTCCGAGCAGGAGGAATACGAGG  
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 CTGGAGAAGCTGGAGGACACAATCAAGCACCACCTCACTTCTGACGCAACAAGCTTGTGACCAGAAGA



CCAGGAAATCCCTCGACCGAGGGGAGTTCGCCTTCTTATTATGCGGGAGAGGTGACCTACAGCGTGAC  
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 CCAAAGTCAAGCAGAGAAATTGATTATGCCAACCTAACTGGAATCTCCGTAGTACCTGAGTGTAGCCT  
 GTTTGTGCTTACGTGCAGCGTGAAGACAGCAAGCAGAAGGGAGATGTGGTACTGCAGAGCGATCATGTG  
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 TCACGTTTGCAGGGGTCCAGGCAGGGATGGCATCATCGACTTACATCTGGCTCAGAGCTTCTCATCAC  
 CAAGGTAAGAATGGCCACCTGGCTGTGGTGGCCACGGCTGAATTCTCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR211197 representing NM\_023092  
 Red=Cloning site Green=Tags(s)

MRYRASALGSDGVRVTMESALTARDRVGVQDFVLLNFSEAAFIENLRRRFRENLIYTYIGPVLVSVNP  
 YRDLQIYTRQHMERYRGVSFYEVPPLHFAVADTVYRALRTERRDQAVMISGESGAGKTEATKRLLQFYAE  
 TCPAPERGGAVRDRLQSNPVLEAFGNAKTLRNDNSSRFKGYMDVQDFDKGAPVGGHILSYLLEKSRVH  
 QNHGERNFHFVYQLLEGGEEELRRLGLERNPQSYLYLVKGCQAKVSSINDKSDWKVVRKALSVIDFTED  
 EVEDLLSIVASVHLGNIHFAAEDSNAQVTTENQLKYLTRLLGVEGTTLREALTHRKIIAKGEELLSP  
 NLEQAAYARDALAKAVYSRTFTWLVRKINRSLASKDAESPSWRSTTVLGLLDIYGFEVQHNSFEQFCIN  
 YCNEKLQQLFIELTLKSEQEEYEAEGIAWEPVQYFNKIIICDLVEEKFKGIISILDEECLRPGEATDLTF  
 LEKLEDTIKHHPHFLTHKLADQKTRKSLDRGEFRLLHYAGEVTYSVTGFLDKNNDLLFRNLKETMCSSTN  
 PIMAQCFDKSELSDKKRPETVATQFKMSLLQLVEILRSKEPAYIRCIKPNDKQGRFDEVILIRHQVKYL  
 GLMENLRVRRAGFAYRRKYEAFLQRYKSLCPETWVPVWTRPQDGVAVLVRHLGYPKPEEYKMGRTKIFIRF  
 PKTLFATEDSLEVRRQSLATKIQAARWGFHWRQKFLRVKRSIICISQSWRGTGRRKAARKRWAAQTIRR  
 LIRGFI LRHAPRCPENAFFLDHVRTSFLNLRRLPRNVLDTSWPTPPPALREASELLRELCKMNMWVY  
 CRSISPEWKQQLQKAVASEIFKGGKDNYPQSVPRLFISTRGTEEISPRVLQALGSEPIQYAVPVVKYD  
 RKGYKPRSRQLLTPSAVVIVEDAKVKQRIDYANLTGISVSSLSDSL FVLHVQREDSKQKGDVVLQSDHV  
 IETLTKTALSADRVNNININQGSITFAGGPGRDGIIDFTSGSELLITKAKNGHLAVVAPRLNSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

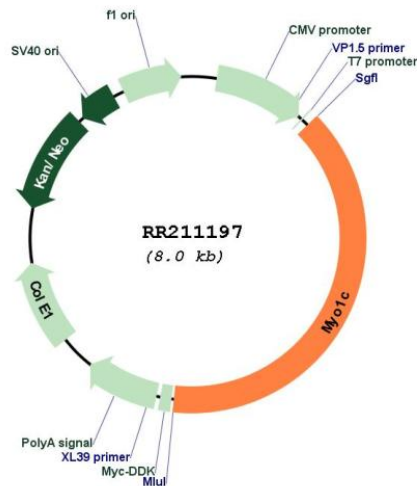
**Restriction Sites:**

Sgfl-Mlul

## Cloning Scheme:



## Plasmid Map:



ACCN:

NM\_023092

ORF Size:

3132 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_023092.1</a></u> , <u><a href="#">NP_075580.2</a></u>
<b>RefSeq Size:</b>	3810 bp
<b>RefSeq ORF:</b>	3135 bp
<b>Locus ID:</b>	65261
<b>UniProt ID:</b>	<u><a href="#">Q63355</a></u>
<b>Cytogenetics:</b>	10q24
<b>MW:</b>	119.8 kDa
<b>Gene Summary:</b>	novel class-I Myosin found in brain [RGD, Feb 2006]