

Product datasheet for **RC218508**

Myosin IIIB (MYO3B) (NM_138995) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin IIIB (MYO3B) (NM_138995) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myosin IIIB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218508 representing NM_138995 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAACATCTGTATGGATTATTTCACTATAATCCTATGATGCTTGGACTTGAATCACTTCCAGATCCCA
CAGACACCTGGGAAATTATAGAGACCATTGGTAAAGGCACCTATGGCAAAGTCTACAAGGTAACAA
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CGGATCACTGTAGGGGGACAGCTGTGGCTGGTCTGGAGCTGTGTAATGGGGCTCAGCTCAGTCACT
TGTCAAAGGTCTACTCAGATGTGGCCAGCGGTTGGATGAAGCAATGATCTCATAACATCTTGTACGGGCC
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TCTTCTATGACGCTCGCTGTGACGTCTGGTCTTGGGGATCACAGCTATTGAAGTGGGGATGGAGACC
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TCATCCAGAAAAATGGTGTGAAGAATCAACCACTTTATTTACAGTGTCTTATTAAGGATTTGAAAGG
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TTATGCTGGTCTTCATCACCAAAAGAAGCTTTCTGATTTTCAGACTTCTGAGGAAAAACCTCCTAGGTAC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC218508 representing NM_138995
Red=Cloning site Green=Tags(s)

MKHL YGLFHYNPMLGLESLPDPTDTWEIIETIGKGTYGKVKVTKNRDGSAAVKILDPVSDMDEEIEA
 EYNILQFLPNHPNVVKFYGMFYKADHCVGGQLWLVELECNNGSVTELVKGLLRGQRLDEAMISYILYGA
 LLGLQHLHNNRIIHRDVKGNILLTTEGGVKLVDFGVSAQLTSTRLRNRTSVGTPFWMAPEVIACEQQYD
 SSYDARCDVWSLGITAIELGDGPPPLFDMHPVKTLFKIPRNPPTLLHPEKWCEEFNHFI SQCLIKDFER
 RPSVTHLLDHPFIKGVHGKVLFLQQLAKVLQDQKHQNPVAKTRHERMHTRRPYHVEDAEKYCLEDDL VN
 LEVLDEDTIIHQKRYADLLIYTVGDI LIALNPFQNL SIYSPQFSRLYHGVKRASNPPIHFASADAAY
 QCMVTL SKDQCVISGESGSGKTESAHLIVQHLTFLGKANNQTLREKILQVNSLVEAFNGSCTAINDNSS
 RFGKYLEMMFTPTGVVMGARISEYLLEKSRVIKQAAREKNFHFYIYAGLHHQKLSDFRLPEEKPPRY
 IADETGRVMHDI TSKESYRRQFEAIQHCFRIIGFTDKEVHSVYRILAGILNIGNIEFAA ISSQHQTDKSE
 VPNAEALQNAASVLCISPEELQEALTSHCVVTRGETIIRANTVDRAADV RDAMSKALYGR LFSWIVNRIN
 TLLQP DENIC SAGGMNVGILDIFGFENFQRNSFEQLCINI ANEQIQYF NQHVFAL EQMEYQNEGIDAV
 PVEYEDNRPLDMFLQKPLG LLLALLDEESRFPQATDQTLVDKFEDNLRCKYFWRPKGVELCFGIQHYAGK
 VLYDASGVLEKNRDTLPADV VVVLR TSENMLLQQLFSIPLTKTGNLAQTRARITVASSSLPPHFSAGKAK
 VDTLEVI RHPEETT NMKRQTVASYFRYS LMDLLSKMVVGQPHFVRCIKPNDDREALQFSRERVLAQLRST
 GILETVSIRRQGYSHRILFEFVKRYYYLAFTAHTQPLASKESCVAILKSRLDHWWLGKTKVFLKYHYHV
 EQLNLLLREVI GRVVVLQAYTKGWL GARRYKVKVREKREKGAIAIQSAWRGYDARRKFKKISNRRNESAAH
 NQAGDTSNQSSGPHSPVAAGTRGSAEVQDCSEPGDHKVL RGSVHRRSHSQAESNNGRTQTSSNSPAVTEK
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 CQQPKMLSSPEDTMYYNQLNGTLEYQSGSKRKPRKLGQIKVLDGEDEYYKSLSPVDCIPEENNSAHP SFFS
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Restriction Sites:

SgfI-MluI

Cloning Scheme:

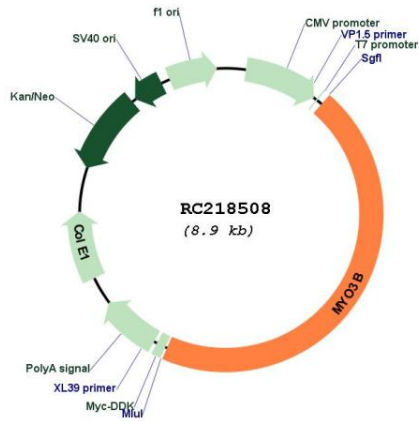


ACCN: NM_138995

ORF Size: 4023 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:	<ol style="list-style-type: none"> 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_138995.2 , NP_620482.2
RefSeq Size:	5529 bp
RefSeq ORF:	4026 bp
Locus ID:	140469
UniProt ID:	Q8WXR4
Cytogenetics:	2q31.1
Protein Families:	Druggable Genome, Protein Kinase
MW:	151.6 kDa
Gene Summary:	This gene encodes one of the class III myosins. Myosins are ATPases, activated by actin, that move along actin filaments in the cell. This class of myosins are characterized by an amino-terminal kinase domain and shown to be present in photoreceptors. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]

Product images:



Circular map for RC218508