

Product datasheet for MR216399

Mytop (NM_145579) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mytop (NM_145579) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mytop
Synonyms: Myodysa; P42pop
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR216399 representing NM_145579
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTCGGCGACCGCGCGCGCGCGCGGGCGAAGCGGAGGAGACCACCCGACTCCGCAAGCCGCGCT
 TCTCCTTCGAGGAGAACCAGATCCTGATCCGAGAGGTGCGCGCCACTACCCTCAGCTCTACGGCGCGCA
 GAGCCGTGGGTGAGCGTGGCCGAGCGGCGGAGTGTGGGACAGCATCGCCACCAAAATCAACGGCATC
 ACCAGCTGGAACGCACGGCCAGGAGTTT CAGAAGCGTTGGAACGACTCAAGCGCCGACCAAGGAGA
 AGCTGGCCCGCTGCCGATTCCACGCAGGGCGCGGGCCCGCCGCTGAGGACGCCTTCTCTGCGGAGGA
 GGAGACTATTTTCGCATCCTGGGACCGGGTGTGGCGGGCCGGGGCTGGCTCTGGGGCTGAGGAGTCC
 CGGGCAGCCGCTCTTCACAGCCGAGGCTTCGACCGCTAGTACACAACGGTATGTGTTGTGAGGAGACC
 GCAGGCAGGATCGACGGGAGATACACCAGCCAGAGCAAGGGAGGCTCCAGCAGCCAGAGTCTGGGC
 CCGGCCCTCTTGCAATCCCAAGAAGCCAAGGAGCGTGAGTCCACGTCCCCTGCAGCCATGCAGCCTGTC
 CAGCTGCCCGCCTGGCCTTGTCTCCACCGCTCCCTGCCCTCCACCACCCACCCAGCGCTGGCCAAAG
 TGGCACCTCATCTCCTAGCCAACTCCTCCTCGGCCACCTCAGCCCCAGAAGTCCCTGGACTTCT
 GCGGGCTCAGCAGGAGACTGCCAATGCTATCAGGAGCTGGCTGGCACCTTCGGCAGGGACTGGCCAAA
 CTGAGCGAGGCCCTCAGTGCCCTGTTACCCCTTTTGGCGGAACCCAGCTGACCCGCTGCCCGGCCCC
 CACCGCCACCTCCGCCCCACCTCCAAACCAGTCTGCCACCCTTGCCCCAAGGTGGAGCTCGCCCC
 AGAGCCTGTGTCTGTGGTAGCTGCTGTTGTGGATGGGGCTGTAGTGGCAGCGAGGGGAGTGATCATCTCC
 CCCAGGAGCGAGGAAGGGGTGCCAAACCACTACCCCAAGCCCACTTCCCCTCCACGACTCACCCC
 CACACAAAAGGAGGAAAGGTTTCCCTACACGAAAGAGCGGGGCCGCTGGAAGTCTCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR216399 representing NM_145579
Red=Cloning site Green=Tags(s)

MASATAAAAPGEAEETTRLRKPRFSFEENQILIREVRAHYPQLYGAQSRVSVVAERRRVWDSIATKINGI
 TSWKRTGQEVQKRWNDFKRRTKEKLARVPHSTQGAGPAEDAFSAEETIFAILGPGVAGPGAGSGAEES
 RAAASSQPQASTASTQRVYVLSEDRRQDRRADTPAQSKGSSSPESWARPCSNPQEAKERESTSPAAMQPV
 QLPRLALSPPLPAPPPPTALAQVAPSSPSPTPPRPTSAPEQSLDFLRAQQETANAIRELAGTLRQGLAK
 LSEALSALLPLLPGTPADPLPPPPPPPPPPPKPVLPPSAPKVELAPEVSVVAAVVDGAVVAARGVIIS
 PRSEEGVPKPLPPAPPLPLHDSPPHKRRKGFTRKRRGRWKSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9082_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145579

ORF Size: 1179 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_145579.3](#), [NP_663554.1](#)

RefSeq Size: 2188 bp

RefSeq ORF: 1182 bp

Locus ID: 232934

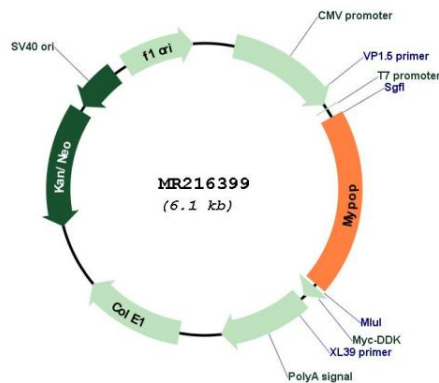
UniProt ID: [Q8R4U1](#)

Cytogenetics: 7 A3

MW: 41.9 kDa

Gene Summary: Transcriptional repressor; DNA-binding protein that specifically recognizes the core sequence 5'-YAAC[GT]G-3'. Dimerization with PFN1 reduces its DNA-binding capacity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216399