

Product datasheet for MC218262

Tyms (BC020139) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Tyms (BC020139) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Tyms
 Synonyms: TS
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >BC020139
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGGTGGTTGGCTCCGAGCTGCAGTCCGATGCTCAGCAGCTGAGCGCGGAAGCCCCGAGCATGGAG
 AACTCCAGTACCTGAGGCAGGTGGAACACATTTTGCCTGCGGCTCAAGAAGGAGGACCGCACGGGCAC
 AGGCACCTGTCCGTGTTCCGGCATGCAGGCACGATACAGCCTGAGAGATGAATTTCTCTGCTCACAACC
 AAACGAGTGTTCTGGAAGGGTGTCTTGGAGGAGTTGTTGTGGTTTATCAAGGGATCCACAAATGCTAAAG
 AATTGTCTCCAAGGGAGTGAGAATCTGGGATGCCAATGGATCCCAGATTTTCTGGACAGCTTGGGATT
 TTCTGCCCGACAGGAAGGGGACCTGGGCCAGTTTATGGTTTCCAATGGAGGCATTTTGGAGCAGAGTAC
 AAAGATATGGATTGAGTACTCGGGACAAGGAGTAGACCAGCTGCAAAAAGTGATTGACACCATCAAAA
 CCAACCTGATGACAGAAGAATCATCATGTGTGCCTGGAACCCAAAAGATCTTCCCTGATGGCACTGCC
 TCCTTGCCATGCCCTCTGTCAAGTCTATGTGGTGAATGGGAACTGTCTTGCAGCTTTACCAGAGGTCA
 GGAGATATGGGTCTGGGCGTGCCTTCAACATTGCCAGCTATGCTCTGCTCACCTACATGATTGCACATA
 TCACAGGCCTGCAGCCAGGTGATTTTGTCCACACTTTGGGAGATGCACATATTTACCTGAATCATATAGA
 GCCGCTGAAAATTCAGCTACAGCGAGAACCAAGACCTTTCCCAAAGCTCAAAATCCTTCGAAAAGTTGAG
 ACAATCGATGATTTCAAAGTTGAAGACTTTCAGATTGAAGGGTATAATCCACATCCAACGATTAATG
 AAATGGCTGTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: BC020139
 Insert Size: 924 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:	<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:	BC020139 , AAH20139
RefSeq Size:	986 bp
RefSeq ORF:	923 bp
Locus ID:	22171
Cytogenetics:	5 15.81 cM
Gene Summary:	This gene encodes an enzyme that catalyzes the methylation of deoxyuridylate to deoxythymidylate using 5,10-methylenetetrahydrofolate as a cofactor. This function maintains the thymidine-5-prime monophosphate concentration critical for DNA replication and repair. The encoded enzyme is a target for cancer chemotherapeutic agents. The majority of transcripts for this gene lack a 3' UTR (PMID: 3022294, 3444407). The stop codon in these transcripts is UAA, compared to the UAG found in the genome and longer transcripts, as the polyA site is located within the stop codon (PMID: 3444407, 2157203). A related pseudogene has been identified on chromosome 10. [provided by RefSeq, Mar 2010]