

## Product datasheet for MR202670

### Thyn1 (NM\_144543) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Thyn1 (NM_144543) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Thyn1
Synonyms:	D730042P09Rik; HSPC144; MDS012; MY105; Thy28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202670 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGAGACCCCGCAAGAGGCAGACTGGGACTGCTGGTCCAGACAGGAAGAAGCTATCCGGAAACGTA  
CTAAAACGAAAACAGAAAGTACATCAGTCAAGCTAGAGAACCAGCCTTGAGATGACGACAACCTT  
TAAAAATGGTGGCAAGAATTTAAGCAACTACTGGCTGATGAAGTCAGAGCCAGAAAGCCGGCTAGAGAAA  
GGTATAGACATGAAGTTCAGCATCGAGGATCTCAAAGCACAGCCAAGCAGACAGCTTCTGGGATGGT  
TTCGCAACTATCAGGCTCGGAATTCTCAGGGCCATGAAATTGGAGGATGAAGCCTTCTTACCATAG  
CAACTGCAAAACAGCCTGGCATTGTTGGACTTATGAAGATTGTAAGGAGGCTTACCCAGACCATACACAG  
TTTGAGAAAAGTAACCCCATACGATCCATCCAGCAAAGAGGACGACCCATAATGGTTCGATGGTGGATG  
TACAGTTTGTTCGAATGATGAAGCGCTTCATCCCTCTGGAGGAGCTTAAACCTATCACCAAGCCCAAA  
AGCTACTGGCGGCCCTTAAAAAGCATGACTCTTTCACCCGCCAGAGACTTTCGTTTCAGCCTCTGACT  
CAAGAAGAGTTTGATTTTATTTGAGCCTGGAGGAAACAGAACCAAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202670 protein sequence  
Red=Cloning site Green=Tags(s)

MPRPRKRQTGTAGPDRKKLSGKRTKTENSESTSVKLENSSELEMTTTFKNGGKNSNYWLMKSEPEsrLEK  
 GIDMKFSIEDLKAQPKQTACWDGVRNYQARNFLRAMKLEDEAFFYHSNCKQPGIVGLMKIVKEAYPDHTQ  
 FEKSNPHYDPSSKEDDPKWSMVDVQFVRMMKRFIPLEELKTYHQAHKATGGPLKSMTLFTRQRLSVQPLT  
 QEEDFDILSLEETEPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_144543

**ORF Size:** 681 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\\_144543.1](#), [NP\\_653126.1](#)

**RefSeq Size:** 976 bp

**RefSeq ORF:** 681 bp

**Locus ID:** 77862

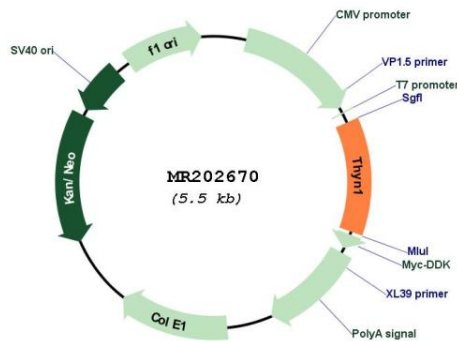
**UniProt ID:** [Q91YJ3](#)

**Cytogenetics:** 9 A4

**MW:** 26.2 kDa

**Gene Summary:** Specifically binds 5-hydroxymethylcytosine (5hmC), suggesting that it acts as a specific reader of 5hmC.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202670