

Product datasheet for **MC205746**

Cat (NM_009804) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cat (NM_009804) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cat
Synonyms:	2210418N07; Cas-1; Cas1; Cs-1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC013447
 CCGGGTGGAGACCGCTGCGTCCGTCCCTGCTGTCTCACGTTCCGCAGCTCTGCAGCTCCGCAATCTTACA
 CCATGTGCGGACAGTCGGGACCCAGCCAGCAGCAGATGAAGCAGTGGAAGGAGCAGCGGGCTCGCAGAG
 ACCTGATGTCCTGACCACCGGAGCGGGAAACCAATAGGAGATAAACTTAATATCATGACCGCGGGTCC
 CGAGGGCCCTCCTCGTTGAGGATGTGGTTTTCTACTGACGAGATGGCACACTTTGACAGAGAGCGGATTC
 CTGAGAGAGTGGTACACGAAAAGGAGCAGGTGCTTTTGGATACTTTGAGGTACCCACGATATCACCAG
 ATACTCCAAGGCAAAGGTGTTTGGACATATTGGAAGAGGACCCCTATTGCGGTTGATTCTCCACAGTC
 GCTGGAGAGTCAGGCTCAGCTGACACAGTTCGTGACCCTCGGGGTTTGCAGTGAATTTTACACTGAAG
 ATGGTAACTGGGATCTTGTGGGAAAACAACCCCTATTTTCTTCATCAGGGATGCCATATTGTTTCCATC
 CTTTATCCATAGCCAGAAGAGAAAACCCACAGACTCACCTGAAGGATCCTGACATGGTCTGGGACTTCTGG
 AGTCTTCGTCCGAGTCTCTCCATCAGGTTTCTTTCTTGTTCAGTGACCGAGGGATTCCCGATGGTCACC
 GGCACATGAATGGCTATGGATCACACACCTTCAAGTTGGTTAATGCAGATGGAGAGGCAGTCTATTGCAA
 GTTCCATTACAAGACCGACCGGATCAAAAACCTTGCCTGTTGGAGAGGCAGGAAGGCTTGCTCAGGAA
 GATCCGGATTATGGCTCCGAGATCTTTTCAATGCCATCGCCAATGGCAATTACCCGTCCTGGACGTTTT
 ACATCCAGGTCATGACTTTTAAAGAGGCAGAAAACCTTCCATTTAATCCATTTGATCTGACCAAGGTTTG
 GCCTCACAAAGGACTACCTCTTATACCAGTTGGCAAACTGGTTTTAAACAAAAATCCAGTTAATTACTTT
 GCTGAAGTTGAACAGATGGCTTTTGACCAAGCAATATGCCCCCTGGCATCGAGCCAGCCCTGACAAAA
 TGCTTCAGGGCCGCTTTTTGCCTACCCGGACACTCACCGCCACCGCCTGGGACCAACTATCTGCAGAT
 ACCTGTGAACTGTCCCTACCGCGCTCGAGTGGCCAACCTACCAGCGTATGGCCCCATGTGCATGCATGAC
 AACCAGGGTGGTCCCAACTATTACCCCAACAGCTTACGCGCACAGAGCAGCAGCGCTCAGCCCTGG
 AGCACAGCGTCCAGTGCCTGTAGATGTGAAACGCTTCAACAGTGCTAATGAAGACAATGCACTCAGGT
 GCGGACATTCTACAAAAGGTGTTGAACGAGGAGGAGAGGAAACGCTGTGTGAGAACATTGCCGCCCAC
 CTGAAGGACGCTCAGCTTTTCAATTCAGAAGAAAGCGGTCAAGAATTTCACTGACGTCACCCCTGACTATG
 GGGCCCGCATCCAGGCTCTTCTGGACAAGTACAACGCTGAGAAGCCTAAGAACGCAATTCACACCTACAC
 GCAGGCCGGCTCTCACATGGCTGCGAAGGAAAAGCTAACCTGTAACCTCCGGTGTCTCAGCCTCCGCTGAG
 GAGACCTCTCGTGAAGCCGAGCCTGAGGATCACCTGTAATCAACGCTGGATGGATTCTCCCACTCCGGAG
 CGCAGACTCACGCTGATGACTTTAAAACGATAATCCGGGCTTCTAGAGTGAATGATAACCATGCTTTTGA
 TGCCGTTTCTGAAGGAAAATGAAAGGTTAGGGCTTAGCAATCATTTAACAGAAACATGGATCTAATAGG
 ACTTCTGTTTGGATTATTCATTTAAATGACTACATTTAAATGATTACAAGAAAGGTGTTCTAGCCAGAA
 ACATGACTTGATTAGACAAGATAAAAATCTTGGCGAGAATAGTGATTCTCTATTACCTCATGGTCTGG
 TATATATAACAACAACACACATACCACACACACACACATGCAATACACACACTACACACACATACAC
 AACTCACACACACTCATACACACATGAAGAGATGATAAAGATGGCCCACTCAGAATTTTTTTTTTTTA
 TTTTTCTAAGGTCCTTATAAGCAAAACCATACTTGATCATGTCTTCAAAGTAACCTTTAGCACTGTTG
 AAATTAATGTTTATTCCTGTGCTGTGCGGTGCTGTGCTGTGCTGTGCTGTGCTGATCAGATTCTTG
 TTTTTCCCACTTGATTATGTTGATGTTAATACGCAAGTATTCACATAGGATGATTTGTACTTGCTTA
 CATTTTTACAATAAATGATCTACATGGAAA AAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_009804

Insert Size: 1584 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:

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: [BC013447](#), [AAH13447](#)

RefSeq Size: 2459 bp

RefSeq ORF: 1584 bp

Locus ID: 12359

UniProt ID: [P24270](#)

Cytogenetics: 2 54.43 cM

Gene Summary: Occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. Promotes growth of cells.[UniProtKB/Swiss-Prot Function]