

Product datasheet for **RN211879**

Cat (NM_012520) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cat (NM_012520) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cat
Synonyms:	Cas1; Cat01; CatI; Cs-1; CS1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN211879 representing NM_012520
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGACAGCCGGACCCAGCCAGCAGCAGCAGATGAAGCAGTGAAGGAGCAGCGGGCCCTCAGAAAC
 CCGATGTCTGACCACCGAGGCGGGAACCAATAGGAGATAAACTTAATATCATGACTGCGGGGCCCG
 AGGGCCCTCCTCGTTCAAGATGTGGTTTTACCGACGAGATGGCACACTTTGACAGAGAGCGGATTCT
 GAGAGAGTGGTACATGCAAAGGAGCAGGTGCTTTGGATACTTTGAGGTCACCCACGATATTACCAGAT
 ACTCCAAGGCAAAGGTGTTGAGCATATTGGGAAGAGGACTCCTATTGCCGTCCGATTCTCCACAGTCGC
 TGGAGAGTCAGGCTCAGCTGACACAGTTCGTGACCCTCGTGGGTTGCAGTAAAATTCTACACTGAAGAT
 GGTAAGTGGGACCTGTGGAAACAACACCCCTATTTTCTTCATCAGGGATGCCATGTTGTTCCATCCT
 TTATCCATAGCCAGAAGAGAAACCCACAACTCACCTGAAGGACCCTGACATGGTCTGGGACTTCTGGAG
 TCTTTGTCCAGAGTCTCCATCAGTTACTTTCTTGTTCAGCGACCGAGGGATTCCAGATGGACATCGG
 CACATGAATGGCTATGGCTCACACACCTCAAGCTGGTTAATGCGAATGGAGAGGCAGTGTACTGCAAGT
 TCCATTACAAGACTGACCAGGGCATCAAAAACCTGCTGTTGAAGAGGCAGGAAGACTTGACACAGGAAGA
 CCCGGATTATGGCCTCCGAGATCTTTCAATGCCATCGCCAGTGGCAATTACCCATCCTGGACTTTTTAC
 ATCCAGGTCATGACTTTCAAGGAGGCAGAAACCTCCCATTTAATCCATTTGACCTGACCAAGGTTTGGC
 CTCACAAGGACTACCTCTTATACCAGTTGGCAAACCTGGTCTTAAACAGAAATCCTGTAATATTTTGC
 TGAAGTTGAACAGATGGCTTTTGACCAAGCAACATGCCCCCTGGCATTGAGCCCAGCCCGACAAGATG
 CTCCAGGGCCGCCTTTTGTCTTACCAGACACTACCGCCACCGCCTGGGACCAAACTATCTGCAGATAC
 CTGTGAAGTGTCCCTACCGTGTCTGCGTGGCCAACTACCAGCGCATGGCCCCATGTGCATGCAGATAC
 CCAGGGTGGTGCCTCCAACTACTACCCCAACAGCTTCAGCGCACCAAGAGCAGCAGGGCTCGGCCCTGGAG
 CACCATAGCCAGTGTCTGCAGATGTGAAGCGCTTCAACAGTGTAAATGAAGACAACGTCACTCAGGTGC
 GGACATTTCTATACGAAGGTGTTGAATGAGGAGGAGAGAAACGCCTGTGTGAGAATTGCCAACCCCT
 GAAAGATGCTCAGCTTTTCATTAGAGGAAAGCGGTCAAGAATTTCACTGACGTCCACCCTGACTACGGG
 GCCCGAGTCCAGGCTCTTCTGGACCAGTACAACCTCCAGAAGCCTAAGAATGCAATTACACCTACGTAC
 AGGCCGGCTCTCACATAGCTGCCAAGGAAAAGCTAACCTG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_012520
- 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: [NM_012520.2](#), [NP_036652.1](#)

RefSeq Size: 2564 bp

RefSeq ORF: 1584 bp

Locus ID: 24248

UniProt ID: [P04762](#)

Cytogenetics: 3q32

Gene Summary: functions as a hydrogen peroxide:hydrogen peroxide reductase [RGD, Feb 2006]