

## Product datasheet for SC208265

### Catalase (CAT) (NM\_001752) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Catalase (CAT) (NM_001752) Human 3' UTR Clone
Symbol:	Catalase
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001752
Insert Size:	644 bp
Insert Sequence:	<p>&gt;SC208265 3' UTR clone of NM_001752</p> <p>The sequence shown below is from the reference sequence of NM_001752. The complete sequence of this clone may contain minor differences, such as SNPs. <b>Red</b>=Cloning site  <b>Blue</b>=Stop Codon</p>

CAATTGGCAGAGCTCAGAATTCAA**GCGATCGC**

GGAGAAGGCAAATCTGT**GA**GGCCGGGGCCCTGCACCTGTGCAGCGAAGCTTAGCGTTCATCCGTGTAACC  
 CGCTCATCACTGGATGAAGATTCTCCTGTGCTAGATGTGCAAAATGCAAGCTAGTGGCTTCAAAATAGAGA  
 ATCCCACCTTTCTATAGCAGATTGTGTAACAATTTAATGCTATTTCCCAGGGGAAAATGAAGTTAGGA  
 TTTAACAGTCATTTAAAAAATTTGTTTGACGGATGATTGGATTATTCATTTAAAATGATTAGAAG  
 GCAAGTTTCTAGCTAGAAATATGATTTATTTGACAAAATTTGTTGAAATTATGTATGTTTACATATCAC  
 CTCATGGCCTATTATATTAATATGGCTATAATATATAAAAGAAAAGATAAAGATGATCTACTCAGA  
 AATTTTATTTTCTAAGGTTCTCATAGGAAAAGTACATTTAATACAGCAGTGCATCAGAAGATAAATT  
 GAGCACCGTCATGGCTTAATGTTTATTCCTGATAATAATTGATCAAATTCATTTTTTCTACTGGAGTTAC  
 ATTAATGTTAATTCAGCACTGATTTACAACAGATCAATTTGTAATTGCTTACATTTTACAATAAATAA  
 TCTGTACGTAAGAA

**ACGCGT**AAGCGGCCGCGGCATCTAGATTCTGAAGAAAATGACCG

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).



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Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_001752.3</u>
Summary:	This gene encodes catalase, a key antioxidant enzyme in the bodies defense against oxidative stress. Catalase is a heme enzyme that is present in the peroxisome of nearly all aerobic cells. Catalase converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide. Oxidative stress is hypothesized to play a role in the development of many chronic or late-onset diseases such as diabetes, asthma, Alzheimer's disease, systemic lupus erythematosus, rheumatoid arthritis, and cancers. Polymorphisms in this gene have been associated with decreases in catalase activity but, to date, acatalasemia is the only disease known to be caused by this gene. [provided by RefSeq, Oct 2009]
Locus ID:	847