

Product datasheet for **MG208453**

Cat (NM_009804) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cat (NM_009804) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cat
Synonyms:	2210418N07; Cas-1; Cas1; Cs-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208453 representing NM_009804
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGACAGTCGGGACCCAGCCAGCAGCAGCAGATGAAGCAGTGAAGGAGCAGCGGGCCTCGCAGAGAC
 CTGATGTCTGACCACCGAGGCGGGAACCAATAGGAGATAAACTTAATATCATGACCGGGGTTCCCG
 AGGGCCCTCCTCGTTCAGGATGTGGTTTTCACTGACGAGATGGCACACTTTGACAGAGAGCGGATTCTCT
 GAGAGAGTGGTACACGCAAAAGGAGCAGGTGCTTTGGATACTTTGAGGTCACCCACGATATCACCAGAT
 ACTCCAAGGCAAAGGTGTTTGGCATATTGAAAGAGGACCCCTATTGCCGTTGATTCTCCACAGTCGC
 TGGAGAGTCAGGCTCAGCTGACACAGTTCGTGACCCTCGGGGTTTGCAGTGAATTTTACTACTGAAGAT
 GGTAAGTGGGATCTTGTGGAAACAACACCCTATTTTCTTCATCAGGGATGCCATATTGTTCCATCCT
 TTATCCATAGCCAGAAGAGAAACCCACAGACTCACCTGAAGGATCCTGACATGGTCTGGGACTTCTGGAG
 TCTTCGTCGGGATCTCCATCAGTTTCTTTCTTGTTCAGTGACCGAGGGATTCCCGATGGTCACCGG
 CACATGAATGGCTATGGATCACACACCTCAAGTTGGTTAATGCAGATGGAGAGGAGTCTATTGCAAGT
 TCCATTACAAGACCGACCGAGGATCAAAAACCTGCTGTTGGAGAGGCAGGAAGGCTTGCTCAGGAAGA
 TCCGGATTATGGCCTCCGAGATCTTTCAATGCCATCGCCAATGGCAATTACCCGTCCTGGACGTTTAC
 ATCCAGGTCATGACTTTAAGGAGGCGAAACTTTCCATTTAATCCATTTGATCTGACCAAGGTTTGGC
 CTCACAAGGACTACCCTTTATACCAGTTGGCAAACCTGGTTTTAAACAAAATCCAGTTAATTACTTTGC
 TGAAGTTGAACAGATGGCTTTTGACCAAGCAATATGCCCCCTGGCATCGAGCCAGCCCTGACAAAATG
 CTTCAGGGCCGCTTTTGCCTACCCGGACACTACCCGCCACCGCTGGGACCAACTATCTGCAGATACA
 CCAGGGTGGTGCCTCAACTATTACCCCAACAGCTTCAGCGCACAGAGCAGCAGCGCTCAGCCCTGGAG
 CACAGCGTCCAGTGCCTGTAGATGTGAAACGCTTCAACAGTGTAAAGACAATGCTACTCAGGTGC
 GGACATTCTACACAAAGGTGTTGAACGAGGAGGAGGAAACGCCTGTGTGAGAATTGCCGGCCACT
 GAAGGACGCTCAGCTTTTCAATCAGAAGAAAGCGGTCAAGAATTTCACTGACGTCCACCCTGACTATGGG
 GCCCGCATCCAGGCTCTTCTGGACAAGTACAACGCTGAGAAGCCTAAGAACGCAATTCACACCTACACGC
 AGGCCGGCTCTCATATGGCTGCGAAGGAAAAGCTAACCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208453 representing NM_009804
 Red=Cloning site Green=Tags(s)

MSDSRDPASDQMKQWKEQRASQRPDVLTTGGNPIGDKLNIMTAGSRGPLLVQDVVFTDEMAHFRERIP
 ERVVHAKGAGAFGYFEVTHDITRYSKAVFEHIGKRTPIAVRFSTVAGESGADTVRDRPGFAVKFYTED
 GNWDLVGNNTPIFFIRDAILFPSFIHSQKRNPTHLKDPDMVWDFWSLRPESLHQVSLFSDRGIPDGRH
 HMNGYGSHTFKLVNADGEAVYCKFHYKTDQGIKNLPVGEAGRLAQEDPDYGLRDLFNAIANGNYPSTWTFY
 IQVMTFKEAETFPFNPFDLTKVWPHKDYPLIPVGKLVLNKPNVNYFAEVEQMAFDPSNMPPGIEPSPDKM
 LQGRLFAYPDTHRHLGPNYLQIPVNCYPYRVARVANYQRDGPMMHDNQGGAPNYYPNSFSAPEQQRSAL
 HVSQCAVDVKRFNSANEDNVTQVRTFYTKVLEEEERKRLCENIAGHLKDAQLFIQKKAIVKNTDVPDYG
 ARIQALLDKYNAEKPKNAIHTYQAGSHMAAKGKANL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_009804

ORF Size: 1581 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_009804.1](#), [NP_033934.1](#)

RefSeq Size: 2423 bp

RefSeq ORF: 1584 bp

Locus ID: 12359

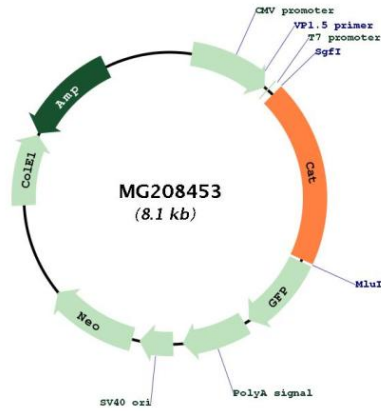
UniProt ID: [P24270](#)

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]

Product images:



Circular map for MG208453