

Product datasheet for **MC223006**

Stox1 (NM_001033260) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stox1 (NM_001033260) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stox1
Synonyms:	4732470K04Rik; Gm63
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223006 representing NM_001033260 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGGCCCGTGCAGCTGGCACCGGGTTCGCTGGCGTTGGTGTGAGCCCGGGAGGCCGGGCAGG
CGGCGGGGAGCCGGCGGTTCGCGCGCTTCCGCGCCTCCGCCGCGCAACGCGCGTCTTCTGGAA
CGCACGGCTGGCGCGCGCCCTCGCGGTGGCTTCTCGGCTGGTGCAGCGCGGGTGTGCTGGT
CGCGCGCCCGAGCCCTGTGTGCAGGTGCTGCGGGATGCGTGGCGTCCGAGCCCTCGCGCCCGCCGAG
GCTTCCGCATCACCGCGTGGGTGATGTCTCCAGTGCAAATGAGTCCCATAGCCAGTCCGGTTTGT
GCCCTTGCTGAAGTTCTCTGCTGTGCTATAGCTGATATGAACGCGGCTCAGGTGATGTTAACACAACAG
TCCTCTTGAGCACTTATCAACATTACCCAGGATTGCTGTTCCCTCCCGAGACATTCTCTACAGCA
CACTGGGAGCTCTAATCAAGAGAGGAAGATTTACCACACTGGAGAAGGCTACTTCATAGTTACCCCAAG
CACATACTTCATCACAAATACGCCAATGCAGGGAAATAAAAGTGTCTCCTGTCAAACGAAGGGTGTCTA
GGGCCACTTCTGGAACCTATCTGGTAAGTGTGGATTGCTGTGCAGAGCCGACCCAGGAGAATGAGGCTC
TCTTTCCCACTGTCCTCATGTGAGTGTACCCTGATACAAGCATGTGCGACTTAAGGACCTCCTGAC
TGCTGCAGAAGTACTAGAAAAAGCCAGGAAGGCTTTGAGGAGACCACAGCTTTGACCGAGAATCAGGTA
GTTTCAGCCTCTGAAGATACCCACATCTGTGTAACCCAAACATTACCATAACCAAAAGACAAAGGCA
AAAGATTTGGTTTTGGTTTTCTTTGTGGCGAGCTTATCTAGAAAAGAGAAGCCAAAGCCGAGTACCACAG
TTTCTCAGCACAGTTCCACCCGAAGAGTGGCCTGTCCGAGATGAGGACAGTTCCACCAAAATCCCCCGA
GATGTGGAACATGCGCTAATCAAAAGATTAACCTGTACTGACTGTTGACAACCTAACCAAGCACACTG
CCCTAATGCAAAAATATGAAGAACAGAAAAATATAACAGCCAGGGCACGTCAATGGATATACTGACAAC
CAGGCATAAAGATTCTCTAAAGAGGTAATTGGGAAAAGGCAGGGCAATTCCGCAAGTCCCGCAGGCGG
GGCAGTTCTATAAGGGTAGACACAAAGCACGGAGCCAGGGGAGTGAGCTTGAGCCAGGAAATCCTGGAC
AGGAAAAGGAAAAGCAGCCAAAGGTCCTGCAGCCAGCCGCGCCCGCAGGAAAAGCCCAAGTGGAC
AGTTCATCACTTGAAGGAGGAATCCAGCTGTGCTAGGCTCCCACTTGATATATAAAAAGCAGATCAAT



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AATCCGTTCCAGGGCATGCATCTCCGAAAGCACTCAGTATCCAAAGGGCAGCCGTTTCAGAAGACCCATG
 GTCTGAAACCTACTTGCCTCGGGCCAGAGGAAAAGCCTTTCTGGAGCGCAGGCTCTTCAGATCCTCCGG
 AGTCTTTGATGGTGAAGCCCAACCGCCGTATCCGGAACAATGCCGTGATAAACTAGAAGCAGGAAGCAGC
 CAGGTGGCGAAGGCTCCTGTCCACCCAGTCAGCGACGATTTTCAGAGGTGGCCAGGAAATATCCTCCAC
 GTAGAGTTTTGCCAGGCCCTCTCGGTGCTGTTCTTTAGGAAAAGTATGCTGCGACCTGGTGTGTATCA
 CGAGGAAAACAAGGACCTCCCTGAGGTCTTCCGAAAAGTTGGTCCACCTGTGACATGTTCTTGGGGACC
 AAGGAAAAGAAGCAGGCCCTGCCCGCACACGTTGCTCTTTGGATCCAGACTCCTCCTGTGCACGCAG
 AGGATAAGACAGTGGATAAGATACTCCACCAGTTCAAAACCTCGGCCTTTAGATTGCCAGCTGGTGC
 AAATCGTTTTGAGGACTCATGAAAGACAAGATGGCAACTCAGAAGAACTAAGTAGAAAGGCATTACAATC
 CCTGAGGCGGAGATTGTGAATATGGAGAACGAAGGGCTTTCTGACAGTGAGCAGGACCAGGTGGCTTTGA
 GTCACAGTGACCTGGGGCTGGGGATGACGGGGCTGCAGTTCTCTGTGTTTAGAGGACGATGACTTCTC
 TGAGACAGATGATTTCTGTCCCTCGTTGCCGGACACACTCAGCACTCCTTGCAGGTGGAGGCACGTGG
 AATCATTTGGGAACACCAGCCATGACAGGGAAGTCTCTGACCGACTGTAATAGCAAAGCCATAGGCTTG
 AGCTTCTGGCCATTGAAAGGAATCCTTGGTACAAGGCCACGGGGTTGTTTTCAAACGCAGGGGAAAGCCC
 AAACCCTGATCTCTGACAACCCTGGTCAAAATTCAGGATCCCATGGGGTTTCAACTACGAAGGGCAG
 CCCACTGTTGCCATGTCCAGACCCAGCAGCTGCTGCTGGCAGAAGTTTACTTGGGTGTTCTACTGTAA
 GGACAACCAAGTTCCAGTTGAGATCCTGCAAGAGTCTCCTGGTATAGGGGAAAGAGTCCAATTGTCTG
 GAGACAGAGCCTTCCAAGTCAGGAAATGAAAGAGCATTTCACAGACAAGTTACAATTGTCAAGACCTCA
 CATGGGCCAGTGTGAGCCAGGACCCAGGGGAGAACACCTTGAAGGGACAGAGAATTACAGCATGACGG
 GAGACAGTGGGATCGATTCCCCAGGACGCAGAGCCTGGTATCTACTAATTCCGCCATTTTGGATGGATT
 TAAAGAAGACAGCATTTTCTGCCAAACCGTGAAGGTGTTCAGAAGAGCCAAAACCTTGCATCGAATTCC
 TTGTTTCAACTAACCCAGCTATAAATGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001033260
- Insert Size:** 2973 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_001033260.1](#), [NP_001028432.1](#)
- RefSeq Size:** 3102 bp
- RefSeq ORF:** 2973 bp

Locus ID: 216021

UniProt ID: [B2RQL2](#)

Cytogenetics: 10 B4

Gene Summary: Involved in regulating the levels of reactive oxidative species and reactive nitrogen species and in mitochondrial homeostasis in the placenta (By similarity). Required for regulation of inner ear epithelial cell proliferation via the AKT signaling pathway (PubMed:25677106). Involved in cell cycle regulation by binding to the CCNB1 promoter, up-regulating its expression and promoting mitotic entry (By similarity). Induces phosphorylation of MAPT/tau (By similarity).[UniProtKB/Swiss-Prot Function]