

Product datasheet for **MC206143**

1500003O03Rik (BC054733) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	1500003O03Rik (BC054733) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	1500003O03Rik
Synonyms:	Sid470p, Chp, Cahp
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC054733
TCTGCCGCTGCTGCTTCTGGCGCTGCCGCTCCCGGAGGAGCTCCCGTCACGGTGATGGGGTCTCGGGCCT
CCACGTTATTGCGGGACGAAGAGCTCGAGGAGATCAAGAAGGAGACTGGCTTTTCCCACAGTCAGATCAC
GCGCCTGTACAGCCGCTTACCAGCCTGGCAAAGGGGAGAACGGGACTCTCAGCCGGGAAGATTCCAG
AGGATCCAGAACTTGCCATCAACCCACTGGGGACCGGATCATCAATGCCTTCTCTCAGAGGGAGAGG
ATCAGGTAAACTCCGAGATTTCATGAGAACATTGGCTCATTCCGACCCATTGAGGATAACGAAAAGAG
CAAAGATGTGAATGGCCCGAACCCCTCAACAGCCGGAGCAACAAGCTGCACCTTTGCTTTCAGACTCTAT
GATTTGGATAAAGATGACAAGATCTCCCGTGATGAGCTGTTACAGGTACTGCGAATGATGGTTGGAGTGA
ATATCTCGGATGAGCAGCTGGGCAGTATTGCGGACAGGACCATCCAGGAGGCTGACCAAGATGGAGATAG
TGCCATATCTTTTACAGAATTCGTTAAGGTTTTGGAAAAAGTGGATGTAGAACAGAAGATGAGCATCCGA
TTTCTTCACTAAAGGGCAGAGACCAAATTATTCTTGCTTCTAGTATTTAAGAACTGAACTTGTGTCT
CCAGCCCCACCCATCCTGTCATCCCCTTTCCAGAATACTACAGCTCTTGCATGACAACCTGAAGTCT
CTCCTGTCCATACAACTTGCTTTGGTGATAAACAGGGCGTTACAGAATGGTACCCTCTGTCTGCTTC
TGTTTCAGTATCCACCACCAGGTCCTTAGTTGTCAGTACCATCTCCCCTGTTAGCTGCTGAGTGCCATG
CATCCATCCTGTCTGGGAAATGAACCAGCCAGCAAAGCTCCCACTGGATGGGGACTATATCCATGCTGC
CTTCCATCCCTGCATCGAGCCTCCACCATGTTTCTGTGACCTTGTGTCCTTTGTCTTGTGCTGTAC
TTCTACCTCTCAGTCATCCAACCTTCTCTCCATTTCAGTTTTTCAGCTGCCCTCCTGTGCTTGAGATTCC
CTGCATTTTACTTGATTCTGGGCTCTGGGCTCTGCTGTTAAGCCTGTTTCTGATGTGGCAGGATAGTTAG
TGGTGTGGTGAGTTATAGCTACCTTCTAATGTGTCTCTGGGACGTTGCCTATCCAGGAGCTTTTCAGCAA
GCAGTACTGCTCTTGAAGCATGTGACTCCCTTGGTCCCTGTATTGCTCTGTTGTCGAAGGGCTTATGA
GCAGACATGTTCTTAAAAGGTGGTCATGGTGAGGCTTGTAGAGCCATGTTTCTAGGTGGCTTCCAGGT
CTCTCTACCTCTGACTTTTTATTTCAAACATATTTATGTGGCTTTTCTGGGTACAGTGTGACATTCAT
TAGAAAAATTTCTAATGCCTGCCAGTTTGCTTCTTTTGGAAACATTGTCAACCCCAAGTGGCTTCTTG
ACAATGGGTAGAGGGCCTTCTTGAGTTTTCTGAACAAGGCTAGGCACCCTGGAGAGCTGGCCACATTT
GCTCTACAGCATGGGTATGCCTCAGTGTCTGTACACTGGAAGAGTCTTACATTTCCAACACAGAAAGA
CTAGTGTACAGAAGTGCCTGACTTATCTCAGTCTAAAGAATTAGATTGCTCAGTGTCTTAAAGTTT
CGCACAAAACCTGAATGAATTTTATACTTGGCAAATTTAATGCTGGACGATGTGCAGTCAGTTTCATAG
TCCTGGTCCAGGCCTTATGTTGTTGCTCATGAGCCTCCTGATGGCGTGACCTTCTAGCTCCCTGTGT
ATACTACGCAGATCCCATAGAAGCATGGGGCAAGGATTGGTGGCACCACCTGAGGTGACATTTAGAGGT
CTTTGAGTGACCCAGCTCAACTTCTCTGCAATGTCAGCTTGATTTAGATCTCACTGAATCAGGCTGCTT
CTGTCTGTGTCCTGTGAATCTGCTCTTGGCTGGCTTTCTCTGATGTGCTTCTTCTGCTTGTGCTTC
GTTGCTTTGGAAGGCTATCCAAGGTGTGTAACAATTCTTTAGTAAATAAATTGCTATTAACCCAAACAA
ACAAAAACACTGCAAAGAGGATGGGTAAGGTGAGCAACAGGGGAATGGCTGGGATAGATGGCTGGGGCT
ACATGAACTGGGGATTCTTTACGAAATATCTGTTAGACTTTGTGATCAAATGATGTGATAAAAGAATTGT
ATAAAGGGAAATAATTGCTGATACTGATCTGTTTGAAGATTGAGAAGCTTCTCAATTTAAATATTTA
AACTTTCTAAGCTTATGCCCCCTTGGCTGTGTATAGCAAACCTGTTTTATCCACAGTTGTGCCTTATTGT
CCCATTAAGTTGATTCCTCAATTCATCAATAAATCAATTGTTGTTAAAAACAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI

ACCN: BC054733

Insert Size: 588 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: [BC054733](#), [AAH54733](#)

RefSeq Size: 2536 bp

RefSeq ORF: 588 bp

Locus ID: 56398

Cytogenetics: 2 E5

Gene Summary: Calcium-binding protein involved in different processes such as regulation of vesicular trafficking, plasma membrane Na(+)/H(+) exchanger and gene transcription. Involved in the constitutive exocytic membrane traffic. Mediates the association between microtubules and membrane-bound organelles of the endoplasmic reticulum and Golgi apparatus and is also required for the targeting and fusion of transcytotic vesicles (TCV) with the plasma membrane. Functions as an integral cofactor in cell pH regulation by controlling plasma membrane-type Na(+)/H(+) exchange activity. Affects the pH sensitivity of SLC9A1/NHE1 by increasing its sensitivity at acidic pH. Required for the stabilization and localization of SLC9A1/NHE1 at the plasma membranes. Inhibits serum- and GTPase-stimulated Na(+)/H(+) exchange. Plays a role as an inhibitor of ribosomal RNA transcription by repressing the nucleolar UBF1 transcriptional activity. May sequester UBF1 in the nucleoplasm and limit its translocation to the nucleolus. Associates to the ribosomal gene promoter. Acts as a negative regulator of the calcineurin/NFAT signaling pathway. Inhibits NFAT nuclear translocation and transcriptional activity by suppressing the calcium-dependent calcineurin phosphatase activity. Also negatively regulates the kinase activity of the apoptosis-induced kinase STK17B. Inhibits both STK17B auto- and substrate-phosphorylations in a calcium-dependent manner (By similarity).[UniProtKB/Swiss-Prot Function]