

Product datasheet for **RN210033**

Cftr (NM_031506) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cftr (NM_031506) Rat Untagged Clone
Tag: Tag Free
Symbol: Cftr
Synonyms: RGD1561193
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN210033 representing NM_031506
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGAAAGTCGCCTCTGGAGAAAGCCAGCTTTATCTCCAAACTCTTCTCAGCTGGACCACACCAATTT
TGAGAAAAGGGTACAGACACCCTTGGAGCTGTCAGACATATACCAAGCCCCTTCTCTGATTTCAGCTGA
CCACCTGTCTGAAAAGCTAGAAAAGAAATGGGACAGGGAACAAGCTTCCAAAAGAAGCCCCAGCTTATC
CAGCCCTCCGGCGATGCTTTGTCTGGAGATTCGTCCTTCTACGGAGTCTTGTATACCTCGGGGAAGTCA
CCAAGGCTGTCCAGCCTGTCTTGTCTAGGAAGAATCATAGCATCCTATGATCCAGACAACCGGAGGAGCG
TTCCATTGCCATTTACCTAGGCATAGGCTTATGCCTCCTCTTATTGTCAGGACACTGCTTCTGCACCCA
GCTATTTTTGGCCTTCATCACATTGGAATGCAGATGAGAATAGCCATGTTTAGCTTGATTATAAGAAGA
CTTTAAAGTTGTCAAGCCGTGTTCTTGATAAAAAGTATTGGACAACCTATTAGTCTTCTTTCCAAACA
CCTGAACAAATTTGATGAAGGACTTGCCTTGGCACATTTTATATGGATTGCTCCTTACAAGTGGTCTT
CTGATGGGGCTTCTCTGGGACTTGTTACAGTTCAGCCTTCTGTGGCCTTGGTTACTGATAGTCTTGG
TTATTTTTCAAGCTATCTTAGGGAAGATGATGGTGAAGTACAGAGATAAAAGAGCTGCAAAGATCAATGA
AAGACTTGTGATCACATCAGAAGTTATTGACAATATCTATTCTGTTAAGGCATATTGTTGGGAATCAGCG
ATGGAGAAGATAATTGAAAGCTTGAAGAGGAGGAACTGAAAATGACCCGGAGGTGAGCCTATATGAGGT
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CATCAATGGAATCGTCTCCGAAAAATATTCACAACCATTTTCTGCTGCTGCTGCTGATGTCAGTC
ACACGGCAATTTCCCACTGCTGTACAGATATGGTATGATTCTTTGGGAATGATAAGAAAAATACAGGATT
TCCTACAGACTCAAGAATATAAAGTGTGGAGTAACTTAATGTTACAGGCCTAGTCATGGAGAATGT
AACAGCATTTTGGGAGGAGGGATTTAGGAATTACTGGAGAAAGTACAATAAACAATGATGACAGAAAA
ACTTCCAATGGTGAAGAACCACTCAGTTTTAGTCATCTGTCTAGTGGGAAATCCTGTGTTGAAAAACA
TCAATTTGAATATAAAGAAAGGAGAGATGTTGGCTATTACTGGATCTACTGGAGCAGGAAAGACATCACT
CCTGATGCTGATACTGGGAGAACTGGAAGCGTCAGAGGGAATTATTAAGCACAGTGGAAAGAGTTTCATTC
TCCTCTCAAATTTCTGGATTATGCCGGTACTATCAAAGAAAATATCATCTTTGGTGTTCCTATGATG



AGTACAGATATAAGAGTGTGTCAAAGCTTGCCAACTACAGGAGGACATACCAAGTTTGCAGAACAAGA
 CAACACAGTTCTTGGAGAAGGTGGAGTCACTCAGTGGAGGTCAACGTGCAAGAATTTCTTTAGCAAGA
 GCAGTATAAAGATGCTGATTTGTACCTGTTAGATTCCCCCTTCGGATATCTAGATGTTTTAACTGAAG
 AACAAATATTTGAAAGTTGTGTCTGTAATTTGATGGCCAGCAAACTAGGATTCTGGTCACATCTAAAT
 GGAGCAGTTAAAGAAAGCTGACAAGATACTCATTTTGCATGAGGGCAGCAGCTATTTTTATGGGACGTTT
 TCTGAACTACAAAGTCTACGTCCAGACTCAGTCCAACTCATGGGTATGATACTTTTGACCAGTTTA
 CTGAGAAAGAAGGAGTCAATTTCAACTGAGACCTTACGACGTTCTCAGTGGACGATGCCTTACCAC
 CTGGAACAAAGCCAAACAGTCATTTAGACAGACTGGAGAGTTTGGAGAAAAAGGAAGAAGCTTATTCTA
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 GGATAAGCTTAAAGGAAGAGGATATATTTCAAGGCGATTATCGCAAGATAGCACACTGAACATCACCGA
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 AAACAATGGCACTAAAATTGCCAATACCTCCTATGTTGTGGTTCATCACCAGTTCAGCTTCTATTACATT
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 AACCTTCAACAAGCTGAAAGCAGGTGGGATTTTAAACAGATTCTCAAAGATATAGCAATTTTGGATGAC
 TTTCTGCCTCTTACCATATTTGACTTCATCCAGTTGCTGTTTATTGTGGTGGAGCAATAATAGTTGTCT
 CGGCTTTACAACCTACATCTTCTAGCAACGGTGCCAGGGCTAGCAGTCTTCAATTTTACGAGGCATA
 CTCTCTCATACCTCCCAACAGCTCAAACTGGAATCTGAAGGCAGGAGTCCAATTTTACGCACCTT
 GTTACAAGCTTAAAAGGACTGTGGACACTTCGAGCCTTCGACGCCAGACTTACTTTGAAACCCTATTCC
 ACAAGCTCTGAATTTGCACACTGCCAAGTGGTTATGTATCTGGCAACCTTGGCCTGGTTCAGATGAG
 AATAGACATGATTTTCGCTCTTCTTATTGTTGTTACCTTCATCTCCATTTTAAACAACAGGTGAAGGA
 GAAGGAACGACTGGTATTATTCTAACTTAGCTATGAATATTAGACTTTGCAATGGGCTGTGAACT
 CAAGCATTGATACAGATAGCTTGTGCGATCTGTGAGCAGAGTCTTTAAGTTTATTGATATACAACAGA
 AGAAAGTATATGTACCAAGATAATGAAAGAACTACATAGTGAAGACTCACCTAATGCTTTAGTCATTAAG
 AATGAACATGTGAAGAAATGTGATACCTGGCCCTCTGGAGGTGAAATGGTGTCAAAGACCTTACTGTGA
 AATATGTGGATGATGGGAATGCCATATTAGAGAACATTTCTTTTCAATAAGCTCTGGCCAGAGGTTGGG
 GCTCTTAGGAAGAACTGGCTCAGGAAAAAGTACTTTGCTGTGAGCCTTTTACGAATGTTGAACATTA
 GGCGAAATACAGATCGATGGTGTCTCCTGGAACCTCAATGACCTTACAAGAATGGAGAAAAGCTTTTGGAG
 TGATAACACAGAAAGTATTTATCTTTTCTGGAACATTCAGACAAAACCTGGATCCCAATGGAAAAATGGAG
 AGATGAAGAAATATGAAAGTTGCAGATCAGGTTGGCCTCAAGTCTGTGATAGAGCAGTTTCTGGACAG
 CTCAACTTTACCCTTGTGGATGGGGTTATGTGCTAAGCCATGGTCAAGCAGTTGATGTGCTTGGCCC
 GATCTGTTCTCAGTAAGGCCAAGATCATACTGCTTGTGAGCCTAGTGCCAATCTAGACCCATAACATA
 CCAAGTGATTCGACGAGTTCTAAGACAAGCCTTCGCTGGTGCACAGTAGTCTCTGTGAACACAGGATA
 GAAGCAATGTTGGACTGTCAGCGATTTTGGTCATAGAGCAGGGCAATGTCTGGCAGTATGAATCCCTCC
 AGGCACCTTCTGAGCGAGAAGAGTGTCTTCCAGCGAGCCCTTAGCTCCTCAGAAAAGATGAAGCTCTTCCA
 CGGCCGGCACTCCAGCAAGCAGAAGCCTCGACACAGATCACTGCTGTGAAAGAGGAGACGGAGGAAGAA
 GTGCAAGAGACCCGGCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_031506
Insert Size: 4431 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_031506.1](#), [NP_113694.1](#)

RefSeq Size: 6287 bp

RefSeq ORF: 4431 bp

Locus ID: 24255

UniProt ID: [P34158](#)

Cytogenetics: 4q21

Gene Summary: cAMP-activated chloride channel and ATP binding cassette (ABC) transporter involved in intestinal anion secretion [RGD, Feb 2006]