

Product datasheet for **MR230906**

Foxp2 (NM_001286607) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxp2 (NM_001286607) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Foxp2
Synonyms:	2810043D05Rik; AI449000; CAG-16; D0Kist7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230906 representing NM_001286607
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGCAGGAATCTGCGACAGAGACAATAAGCAACAGTTCAATGAATCAAAATGGAATGAGCACTTTAA
 GCAGCCAATTAGATGCTGGCAGCAGGGATGGGAGATCAAGTGGTGACACCAGCTCTGAAGTAAGCACAGT
 GGAGCTGCTGCATCTGCAACAACAGCAGGCTCTCCAGGCAGCAAGACAACCTTTTGTACAGCAGCAAACC
 AGTGGATTGAAATCTCCTAAGAGCAGTGAGAAGCAGAGGCCACTGCAGGTGCCGTGTGGTGGCCATGA
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 CTGCTCAGCCTTACAGCGCCAGGGCCTCATCTCCATCCCACCCGGCAAGCAGCCCTTCTGTCCAGTCCG
 TGCTCAAGCTGGCTTAAGTCTGCTGAGATTCAGCAACTATGGAAGAAGTGACTGGAGTCCATAGTAT
 GGAAGACAACGGCATCAAGCATGGAGGGCTAGACCTCACGACTAACAATTCCTCCTCGACTACCTCCTCC
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 CAAGGCGGGACAGCTCATCACATGAGGAGACTGGGCTCGCACACTCTATGGCCATGGAGTCTGCAA
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 CTAAAGAACCGAAGCTTTCAAGCGATGATGACCCACTTGACATGCGACCCCTCAGAGCCCAACCATC
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 CAGCCAGTGTGCCAATGTGGGAGCCATACGAAGGCGACATTCAGACAAATACAACATCCCATGTCATC
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 GATCAATAACGCCTCCAGTGGCCTCCTGCAGGCGTCCACGAAGACCTCAATGGTTCCCTGGACCACATC
 GACAGCAATGGGAACAGCAGTCCGGGTTGCTCACCTCAGCCACACATACATTCAATCCATGTCAAGGAAG
 AACCCGTGATTGCAGAGGATGAAGACTGTCCAATGTCAATTAGTGACAACAGCCAATCACAGTCCGGAGTT
 AGAAGATGACAGAGAGATTGAGGAAGAGCCTTTATCTGAGGACCTGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230906 representing NM_001286607
 Red=Cloning site Green=Tags(s)

MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSSEVSTVELLHLQQQALQAARQLLQQQT
 SGLKSPKSSKQRPLQVPVSVAMMTPQVITPQQMQQILQQQVLSPPQLQALLQQQAVMLQQQQQQQQQ
 QQQQQQQQQQQQQQQQQQQQQQQQQQQQHPGKQAKEQQQQQQQQLAAQQLVFQQQLLQMQQLQQQH
 LLSLQRQGLISIPPGQAALPVQSLPQAGLSPAETQQLWKEVTGVHSMEDNGIKHGGLDLTTNNSSTSS
 TTSKASPPITHHSIVNGQSSVLNARRDSSSHEETGASHTLYGHGVCKWPGCESICEDFGQFLKHLNNEHA
 LDDRSTAQCRVQMVVQQLLEIQLSKERERLQAMMTHLHMRPSEPKSPKPLNLVSSVTMSKNMLETSPQS
 LPQTPTPTAPVTPITQGPSVITPASVNVGAIRRRHSDKYNIPMSSEIAPNYEFYKNADVRPPFTYATL
 IRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNVVRHNLSLHKCFVRVENVKGAVWTVDEVEYQK
 RRSQKITGSPTLVKNIPTSLGYGAALNASLQAALAESSLPLLSNPGLINNASSGLLQAVHEDLNGSLDHI
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

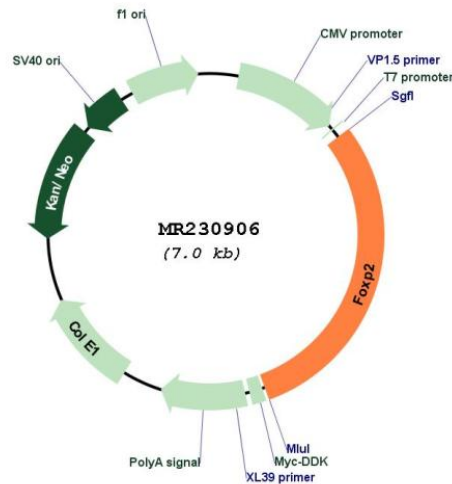
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286607

ORF Size: 2079 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_001286607.1](#), [NP_001273536.1](#)

RefSeq Size: 6360 bp

RefSeq ORF: 2082 bp

Locus ID: 114142

UniProt ID: [P58463](#)

Cytogenetics: 6 A1

MW: 77.6 kDa

Gene Summary: Transcriptional repressor that may play a role in the specification and differentiation of lung epithelium. May also play a role in developing neural, gastrointestinal and cardiovascular tissues. Can act with CTBP1 to synergistically repress transcription but CTPBP1 is not essential. Plays a role in synapse formation by regulating SRPX2 levels.[UniProtKB/Swiss-Prot Function]