

Product datasheet for **MR230960**

Foxp2 (NM_053242) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxp2 (NM_053242) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Foxp2
Synonyms:	2810043D05Rik; AI449000; CAG-16; D0Kist7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR230960 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGCAGGAATCTGCGACAGAGACAATAAGCAACAGTTCAATGAATCAAAATGGAATGAGCACTTTAA
GCAGCCAATTAGATGCTGGCAGCAGGGATGGGAGATCAAGTGGTGACACCAGCTCTGAAGTAAGCACAGT
GGAGCTGCTGCATCTGCAACAACAGCAGGCTCTCCAGGCAGCAAGACAACCTTTTGTACAGCAGCAAACC
AGTGGATTGAAATCTCCTAAGAGCAGTGAGAAGCAGAGGCCACTGCAGGTGCCGTGTGGTGGCCATGA
TGACTCCCAAGTGATCACCCCTCAGCAGATGCAGCAGATTCTTCAGCAGCAGGTCTGTCTCTCAGCA
GCTCCAGGCCCTCTCCAGCAGCAGCAAGCTGTGATGTTGCAGCAGCAACAACAAGAGTTTTACAAG
AAACAGCAAGAACAGTTACATCTTCAGCTTTTGAACAGCAGCAACAGCAGCAGCAGCAACAGCAGCAAC
AGCAGCAGCAGCAGCAACAACAGCAGCAGCAGCAGCAACAGCAACAGCAGCAGCAGCAACAGCAGCA
GCAACAGCAACAGCATCTTGAAAGCAAGCAAAAGAGCAGCAGCAACAGCAGCAGCAGCAGTGGCG
GGCAGCAGCTCGTCTTCCAGCAGCAGCTTCTCCAAATGCAGCAGCTACAGCAGCAACAACATCTGCTCA
GCCTTCAGCGCCAGGGCCTCATCTCCATCCCACCCGGCCAAGCAGCCCTTCTGTCCAGTGGCTGCCTCA
AGCTGGCTAAGTCTGTGAGATTGAGCAACTATGAAAAGAAGTGAAGTGGAGTCCATAGTATGGAAGAC
AACGGCATCAAGCATGGAGGGCTAGACCTCAGCACTAACAAATCTCTCGACTACCTCCTCCACCACGT
CCAAAGCATCACCACTCACACATCATTCCATAGTGAACGGACAGTCTTCAGTCTGAATGCAAGGCG
GGACAGCTCATCATGAGGAGACTGGGGCCTCGCACACTCTCTATGGCCATGGAGTCTGCAAGTGGCCA
GGCTGTGAAAGCATATGTGAAGATTTGGACAGTTTTTGAAGCACCTTAACAATGAGCATGCATTGGATG
ACCGAAGCAGTCCCAATGTGAGTGCAAATGCAGGTGGTACAGCAGTTAGAAATACAGCTTTCTAAGGA
ACGCGAACGTCTTCAAGCGATGATGACCCACTTGACATGCGACCCCTCAGAGCCCAAAACCATCTCCAAA
CCTCTAAATCTGGTGTCTAGTGTACCATGTGCAAGAACATGCTGGAGACATCCCCACAGAGCTTACCTC
AAACCCCTACCACACCAACGGCCCGCAGTACCCCGATTACCCAGGGACCTCTGTAATCACCCACAGCCAG
TGTGCCAATGTGGGAGCCATACGAAGGCGACATTCAGACAAATACAACATCCCCATGTCATCAGAGATT
GCCCAAACACTACGAATTTTATAAAAACGCAGATGTTAGACCTCCCTTCACTTATGCAACACTCATAAGGC
AGGCTATCATGGAGTCTGACAGGCAGTTAACACTTAATGAAATTTACAGCTGGTTTACACGGACATT
TGCTTACTTCAGGCGAATGCCGCCACTTGAAGAATGCAGTGCATATAATCTTAGCCTGCACAAATGT
TTTGTTCGAGTAGAAAATGTTAAAGGAGCAGTGTGGACTGTGGACGAAGTCAATACCAGAAGCGAAGGT
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AAATGCCAGTCTGCAGGCTGCCTTGGCAGAAAGCAGCTTGCCTTTGCTAAGTAACCCTGGACTGATCAAT
AACGCCTCCAGTGGCCTCCTGCAGGCCGTCCACGAAGACCTCAATGGTCCCTGGACCACATCGACAGCA
ATGGGAACAGCAGTCCGGTTGCTCACCTCAGCCACACATACATTCAATCCATGTCAAGGAAGAACCCTG
GATTGCAGAGGATGAAGACTGTCCAATGTCATTAGTGACAACAGCCAATCACAGTCCGGAGTTAGAAGAT
GACAGAGAGATTGAGGAAGACCTTTATCTGAGGACCTGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230960 protein sequence
Red=Cloning site Green=Tags(s)

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MMQESATETISNSSMNQNGMSTLSSQLDAGSRDRSSGDTSSSEVSTVELLHLQQQQALQAARQLLLQQQT
SGLKSPKSSSEKQRPLQVPVSVAMMTPQVITPQQMQQILQQQVLSPPQLQALLQQQAVMLQQQLQEFYK
KQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQHPGKQAKEQQQQQQQQLA
AQQLVFQQQLLQMQLLQQQHLLSLQRQGLISIPPGQAALPVQSLPQAGLSPAEIQQLWKEVTGVHSMED
NGIKHGGLDLTTNNSSTTSSTTSKASPPITHHSIVNGQSSVLNARRDSSSHEETGASHTLYGHGVCKWP
GCESICEDFGQFLKHLNNEHALDDRSTAQCRVQMQVVQLEIQLSKERERLQAMMTHLHMRPSEPKPSK
PLNLVSSVTMSKNMLETSPQSLPQTPTPTAPVTPITQGPSVITPASVPNVGAIRRRHSDKYNIPMSSEI
APNYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNAVRHNLSLHKC
FVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGAALNASLQAALAESSLPLL SNPGLIN
NASSGLLQAVHEDLNGSLDHIDSNNGSSPGCSPQPHIHSIHVKEEPVIAEDEDCPMSLVTTANHSPLELD
DREIEEEPLSEDL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053242

ORF Size: 2145 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_053242.4](#), [NP_444472.2](#)

RefSeq Size: 6760 bp

RefSeq ORF: 2145 bp

Locus ID: 114142

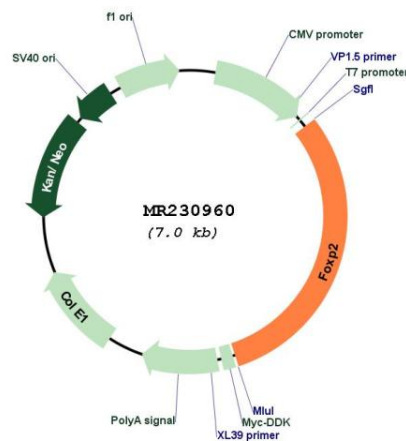
UniProt ID: [P58463](#)

Cytogenetics: 6 A1

MW: 79.8 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]

Product images:



Circular map for MR230960