

Product datasheet for **RN217132**

Foxp2 (NM_001271104) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxp2 (NM_001271104) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Foxp2
Synonyms:	RGD1559697
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN217132 representing NM_001271104
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGCAGGAATCTGCGACAGAGACAATAAGCAACAGTTCAATGAATCAAAATGGAATGAGCACTCTAA
 GCAGCCAATTAGATGCTGGCAGCAGGGATGGGAGATCAAGTGGTGACACTAGCTCAGAAGTAAGCACAGT
 GGAGCTGCTGCATCTGCAACAACAGCAGGCTCTCCAGGCAGCGAGGCAACTTCTGTTACAGCAGCAAACA
 AGTGGATTGAAATCTCCTAAAAGCAGTGATAAACAGAGGCCACTGCAGGTGCCCGTGTGGTGGCCATGA
 TGAATCCCAAGTGATCACCCCTCAGCAGATGCAGCAGATCCTTCAGCAGCAGGTCTGTCTCCTCAGCA
 GCTCCAGGCCCTCCTCCAGCAGCAGCAGGCTGTGATGCTGCAGCAGCAACAACAAGAGTTTTACAAG
 AAACAGCAAGAGCAGTTACATCTTCAGCTTTTGCAGCAGCAGCAACAGCAGCAGCAGCAACAGCAGCAGC
 AGCAACAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAACAACAGCA
 ACATCCTGAAAGCAAGCAAAAGAGCAGCAGCAGCAACAGCAGCAACAGCAGTTGGCCGCTCAACAGCTT
 GTCTTCCAGCAACAGCTTCTCCAGATGCAGCAACTACAGCAGCAGCAGCATCTGCTCAGCCTTCAGTGTC
 AGGGCCTCATCTCCATACCACCCGGCCAAGCAGCACTTCCCGTCCAGTCCGCTCAAGCTGGCTTAAG
 TCCTGCCGAGATTAGCAACTGTGAAAGAAGTACTGGGGTCCACAGTCAGGAAGACAACGGCATTAA
 CATGGAGGGCTCGACCTACAACCAACAATTCTCCTCGACTACCTCCTCCACCCTTCCAAAGCTTAC
 CGCCAATAACACATCATTCCATAGTGAATGGACAGTCTTCAGTTCTGAACGCCAGGCGGGACAGTTTCGTC
 CCACGAGGAGACTGGGGCCTCCACACTCTCTATGGCCATGGAGTTTGCAATGGCCAGGCTGTGAAAGC
 ATCTGTGAAGATTTCCGACAGTTTTTGAAGCACCTTAAACAATGAACATGCATTGGATGACCGAAGCACTG
 CCCAGTGCCGAGTGCAAATGCAGGTGGTACAGCAATTAGAAATACAGCTTCTAAGGAAGCGCAACGTCT
 TCAAGCGATGATGACCCACTTGCACATGCGACCCCTCAGAGCCCAAACCATCTCCCAAACCTCTAAATCTG
 GTGCTAGTGTCACCATGTGGAAGAATGTTGGAGACATCCCCACAGAGCTTACCTCAAACCCCTACCA
 CACCAACGGCCCCAGTCACCCCGATTACCAGGGACCCTCAGTAATCACCCAGCCAGTGTGCCAATGT
 GGGAGCCATACGAAGGCGACATTAGACAAATACAACATCCCCATGTCATCAGAGATTGCCCCAACTAC
 GAATTTTATAAAAACGCAGATGTTAGACCTCCCTTTACTTATGCAACTCTCATAAGGCAGGCTATCATGG
 AGTCATCTGACAGGCAGTTAACACTTAATGAAATTTACAGCTGGTTTACACGGACATTTGCTTACTTCAG
 GCGGAATGCCGCGACTTGAAGAATGCAGTACGTCATAATCTTAGCCTGCACAAATGTTTTGTTTCGAGTA
 GAAAATGTTAAAGGAGCAGTGTGGACTGTGGACGAAGTAGAATACCAGAAGCGAAGTACAAAAAGATAA
 CAGGAAGTCCAACCTTAGTAAAAACATCCCCACAAGTTTGGGCTATGGAGCAGCCCTTAATGCCAGTCT
 GCAGGCTGCCTTGGCAGAGAGCAGTTTGCCTTTGCTAAGTAACCCCTGGACTGATCAATAACGCCTCCAGT
 GGCTCCTGCAGGCCGTCCACGAAGACCTCAATGGTTCCTGGACCACATCGACAGCAATGGGAACAGCA
 GTCCGGGCTGCTCACCTCAGCCACACATACATTCAATCCATGTCAAAGAAGAACCCTGTGATTGCAGAGGA
 TGAAGACTGTCCAATGTCTTTAGTGACGACAGCCAATCACAGTCCGGAGCTAGAAGATGACAGAGAGATT
 GAGGAAGAGCCTTTATCTGAGGACCTGGAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001271104
Insert Size: 2133 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).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001271104.1, NP_001258033.1</u>
RefSeq Size:	6754 bp
RefSeq ORF:	2133 bp
Locus ID:	500037
UniProt ID:	<u>P0CF24</u>
Cytogenetics:	4q21
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 (By similarity). Plays a role in synapse formation by regulating SRPX2 levels.[UniProtKB/Swiss-Prot Function]