

Product datasheet for **RN212150**

Foxp1 (NM_001034131) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxp1 (NM_001034131) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Foxp1
Synonyms:	MGC116362
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN212150 representing NM_001034131
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGCAAGAATCTGGGTCTGAGGCAGCAAAAAGTAAACGGATCAACCATCCAGAACGGTCCAGCGGTGGCA
 ACCACTTACTAGAGTGCGGGACACTTTCGTGACACTCGGTCCAACGAGAGGCACCAGCGGTGGACCTGGG
 AGCAGCCGACCTTGCCACGTCCAGCAGCAGCAGCAGCAGGCCCTGCAGGTGGCAAGGCAGCTCCTCCTT
 CAACAGCAGCAACAGCAGCAGCAGCAGCAACAACAACAGCAGCAGCAGCAACAGCAGCAGCAGCAGC
 AGCAGCAGCAGCAGCAACAGCAGCAACAGCAACAACAGCAGCAAGTTAGTGGATTAAGTCTCCGAA
 GAGGAATGACAAGCAACCAGCTTTCAGGTTCCCGTGTGAGTGGTATGATGACACCTCAGGTTACTACT
 CCTCAACAATGCAGCAGATCCTCCAGCAGCAAGTGTGAGCCACAGCAGCTCCAGGTTCTCCTCCAGC
 AACAGCAGGCCCTCATGCTTCAACAGCAGCAGCTTCAAGAATTTACAAGAAACAACAGGAACAGTTGCA
 GCTTCAACTCCTCAACAGCAACATGCTGGAAAACAGCCGAAAGAGCAGCAGCAGCAGCAGCAGTGGCTACC
 CAGCAGTTGGCTTCCAGCAGCAGCTTCTCAGATGCAGCAGCTGCAGCAGCAGCACCTCCTGTCTCTCC
 AGCGGCAAGGCCTTCTAACAATTCAGCCCGGGCAGCCTGCCCTTCCCCTCCAACCTTGTCTCAAGGCAT
 GATTCCAACGGAAGTGCAGCAGCTCTGGAAAGAAGTGACAAGTGCACACTGCAGAGGAAACCACAGGC
 AGCAACCACAGCAGCCTAGACCTGACCAGCACATGCGTCTCGTCTCCGACCTTCCAAGACCTCCCTAA
 TCATGAACCCACACGCCTCTACCAATGGACAGCTCTCGGTCCACACCCCAAAAGGGAAAGCTTGTCCCA
 CGAGGAGCACCCACAGCCACCCTCTCTACGGACATGGTGTCTGCAAGTGGCCAGGCTGTGAAGCAGTT
 TGTGACGACTTCCCGGCTTTCTAAAACATCTCAACAGTGAGCATGCGCTGGACGATAGAAGCACAGCTC
 AATGTAGAGTACAAATGCAGGTTGTACAGCAGTTAGAGCTACAGCTTGCAAAAGACAAAGAGCGCCTGCA
 AGCCATGATGACCCACCTGCATGTGAAGTCTACAGAACCACAAAGCTGCCCTCAGCCCTGAATCTGGTA
 TCAAGTGTCAACCTCTCCAAGTCCGCCTCAGAGGCTTCTCCACAGAGCTTACCTCATACTCCAACAACCC
 CAACCGCCCCCTGACTCCCGTCAACCAAGGCCCTCTGTATCACCACCACAGCATGCACACGGTGGG
 ACCTATCCGCAGGCGGTACTCAGACAAATAACAGTGCACATTTCTTCCAGCAGATATTGCGCAGAACCAA
 GAATTTTATAAGAACGCGGAAGTTAGACCACATTTACATATGCATCTTTAATTAGGCAGGCCATTCTTG
 AATCTCCAGAAAAGCAGTAACACTAACGAAATCTATAACTGGTTCACACGAATGTTTGTCTTACTTCCG
 ACGCAATGCAGCCACGTGGAAGAATGCAGTGCATATAATCTTAGTCTCCACAAGTGTGTTGTGCGAGTA
 GAGAACGTTAAAGGGGCAGTATGGACAGTGGATGAAGTAGAGTTCAAAAACGGAGGCCACAAAAGATCA
 GTGGTAACCCCTTCCCTTATTA AAAACATGCAGAGCGGCCACGCCTACTGCACACCTCTCAATGCAGCTTT
 ACAGGCTTCCATGGCTGAGAACAGTATACCTCTGTACACTACCGCTCCATGGGGAACCCACGCTGGGC
 AGCCTGGCCAGCGCCATCCGGGAGGAGCTGAACGGGGCCATGGAGCACACCAACAGCAACGAGAGTGACA
 GCAGTCCAGGCAGATCCCTATGCAAGCTGTGCACCCATACACGTCAAGGAGGAACCCCTCGACCCCGA
 GGAAGCTGAAGGGCTCTGTCTTAGTGACAACAGCCAACCACAGTCCAGATTTTGACCACGACAGAGAT
 TACGAAGACGAACCTGTAACGAGGACATGGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001034131
Insert Size: 2136 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:	<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_001034131.1</u> , <u>NP_001029303.1</u>
RefSeq Size:	2328 bp
RefSeq ORF:	2136 bp
Locus ID:	297480
UniProt ID:	<u>Q498D1</u>
Cytogenetics:	4q34
Gene Summary:	<p>Transcriptional repressor. Can act with CTBP1 to synergistically repress transcription but CTPBP1 is not essential. Plays an important role in the specification and differentiation of lung epithelium. Acts cooperatively with FOXP4 to regulate lung secretory epithelial cell fate and regeneration by restricting the goblet cell lineage program; the function may involve regulation of AGR2. Essential transcriptional regulator of B-cell development. Involved in regulation of cardiac muscle cell proliferation. Involved in the columnar organization of spinal motor neurons. Promotes the formation of the lateral motor neuron column (LMC) and the preganglionic motor column (PGC) and is required for respective appropriate motor axon projections. The segment-appropriate generation of spinal chord motor columns requires cooperation with other Hox proteins. Can regulate PITX3 promoter activity; may promote midbrain identity in embryonic stem cell-derived dopamine neurons by regulating PITX3. Negatively regulates the differentiation of T follicular helper cells T(FH)s. Involved in maintenance of hair follicle stem cell quiescence; the function probably involves regulation of FGF18. Represses transcription of various pro-apoptotic genes and cooperates with NF-kappa B-signaling in promoting B-cell expansion by inhibition of caspase-dependent apoptosis. Binds to CSF1R promoter elements and is involved in regulation of monocyte differentiation and macrophage functions; repression of CSF1R in monocytes seems to involve NCOR2 as corepressor. Involved in endothelial cell proliferation, tube formation and migration indicative for a role in angiogenesis; the role in neovascularization seems to implicate suppression of SEMA5B. Can negatively regulate androgen receptor signaling (By similarity).</p> <p>[UniProtKB/Swiss-Prot Function]</p>