

Product datasheet for **SC329102**

FOXP2 (NM_148900) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXP2 (NM_148900) Human Untagged Clone
Tag:	Tag Free
Symbol:	FOXP2
Synonyms:	CAGH44; SPCH1; TNRC10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_148900, the custom clone sequence may differ by one or more nucleotides

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ATGATGCAGGAATCTGCGACAGAGACAATAAGCAACAGTTCAATGAATCAAAATGGAATG
AGCACTTAAGCAGCCAATTAGATGCTGGCAGCAGAGATGGAAGATCAAGTGGTGACACC
AGCTCTGAAGTAAGCACAGTAGAACTGCTGCATCTGCAACAACAGCAGGCTCTCCAGGCA
GCAAGACAACCTTTTACAGCAGCAACAAGTGGATTGAAATCTCCTAAGAGCAGTGT
AAACAGAGACCCTGCAGGTGCCTGTGTGTCAGTGGCCATGATGACTCCCCAGGTGATCACC
CCTCAGCAAATGCAGCAGATCCTTCAGCAACAAGTCTGTCTCCTCAGCAGCTACAAGCC
CTTCTCCAACAACAGCAGGCTGTGTCAGCAGGATTTTTGGATTCTGGATTGGAA
AATTTTCAGAGCTGCCTTGAAAAAATCAACAACACTACAAGAGTTTTACAAGAAACAGCAA
GAGCAGTTACATCTTCAGCTTTTGCAGCAGCAGCAACAGCAGCAGCAACAACAG
CAGCAACAACAGCAGCAGCAACAACAACAACAGCAGCAACAACAGCAGCAGCAGCAG
CAACAGCAGCAGCAGCAACAGCATCCTGGAAAGCAAGCGAAAGAGCAGCAGCAGCAG
CAGCAGCAGCAACAGCAATTGGCAGCCCAGCAGCTTGTCTCCAGCAGCAGCTTCTCCAG
ATGCAACAACCTCCAGCAGCAGCAGCATCTGCTCAGCCTTCAGCGTCAGGGACTCATCTCC
ATTCCACCTGGCCAGGCAGCACTTCCTGTCCAATCGCTGCCTCAAGCTGGCTTAAGTCTC
GCTGAGATTGAGAGTTATGAAAGAAGTACTGGAGTTCACAGTATGGAAGACAATGGC
ATTAACATGGAGGGCTAGACCTCACTACTAACAATTCCTCCTCGACTACCTCCTCCAAC
ACTTCCAAAGCATCACCACCAATAACTCATATCCATAGTGAATGGACAGTCTTCAGTT
CTAAGTGAAGACGAGACAGCTCGTCACATGAGGAGACTGGGGCCTCTCACACTCTAT
GGCCATGGAGTTTGCAAATGGCCAGGCTGTGAAAGCATTGTGAAGATTTGGACAGTTT
TTAAAGCACCTTAACAATGAACACGCATTGGATGACCGAAGCACTGCTCAGTGTGAGTG
CAATGCAGGTGGTGCAACAGTTAGAAATACAGCTTTCTAAAGAACCGAACGTCTTCAA
GCAATGATGACCCACTTGACATGCGACCCTCAGAGCCCAACCATCTCCAAACCTCTA
AATCTGGTGTCTAGTGTACCATGTGGAAGAATATGTTGGAGACATCCCCACAGAGCTTA
CCTCAAACCCCTACCACACCAACGGCCCCAGTCACCCGATTACCAGGGACCCTCAGTA
ATCACCCAGCCAGTGTGCCAATGTGGGAGCCATACGAAGGCGACATTGAGACAATAC
AACATTCCCATGTCATCAGAAATGCCCAAACTATGAATTTTAAAAATGCAGATGTC
AGACCTCCATTTACTTATGCAACTCTCATAAGGCAGGCTATCATGGAGTCATCTGACAGG
CAGTTAACTTAATGAAATTTACAGCTGGTTTACACGGACATTTGCTTACTTCAGGCGT
AATGCAGCAACTTGAAGAATGCAGTACGTCATAATCTTAGCCTGCACAAGTGTGTTGTT
CGAGTAGAAAATGTTAAAGGAGCAGTATGGACTGTGGATGAAGTGAATACCAGAAGCGA
AGGTACAAAAAGATAACAGGAAGTCCAACCTTAGTAAAAAATATACCTACCAGTTTAGGC
TATGGAGCAGCTCTAATGCCAGTTTGCAGGCTGCCTTGGCAGAGAGCAGTTTACCTTTG
CTAAGTAACTCCTGGACTGATAAATAATGCATCCAGTGGCCTACTGCAGGCCGTCCACGAA
GACCTCAATGGTTCTCTGGATCACATTGACAGCAATGGAACAGTAGTCCGGGCTGCTCA
CCTCAGCCGCACATACATTCAATCCACGTCAAGGAAGAGCCAGTATTGCAGAGGATGAA
GACTGCCCAATGTCTTAGTGACAACAGCTAATCACAGTCCAGAATTAGAAGACGACAGA
GAGATTGAAGAAGAGCCTTTATCTGAAGATCTGGAATGA

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Restriction Sites: Please inquire

ACCN: NM_148900

Insert Size: 6424 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_148900.2 , NP_683698.2
RefSeq Size:	6424 bp
RefSeq ORF:	2199 bp
Locus ID:	93986
UniProt ID:	O15409
Cytogenetics:	7q31.1
Protein Families:	Transcription Factors
Gene Summary:	<p>This gene encodes a member of the forkhead/winged-helix (FOX) family of transcription factors. It is expressed in fetal and adult brain as well as in several other organs such as the lung and gut. The protein product contains a FOX DNA-binding domain and a large polyglutamine tract and is an evolutionarily conserved transcription factor, which may bind directly to approximately 300 to 400 gene promoters in the human genome to regulate the expression of a variety of genes. This gene is required for proper development of speech and language regions of the brain during embryogenesis, and may be involved in a variety of biological pathways and cascades that may ultimately influence language development. Mutations in this gene cause speech-language disorder 1 (SPCH1), also known as autosomal dominant speech and language disorder with orofacial dyspraxia. Multiple alternative transcripts encoding different isoforms have been identified in this gene.[provided by RefSeq, Feb 2010]</p> <p>Transcript Variant: This variant (4) lacks an in-frame exon and has an additional in-frame exon in the coding region, compared to variant 2. The resulting isoform (IV) is shorter than isoform II. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>