

Product datasheet for **SC314241**

FOXP2 (NM_148899) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXP2 (NM_148899) Human Untagged Clone
Tag:	Tag Free
Symbol:	FOXP2
Synonyms:	CAGH44; SPCH1; TNRC10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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- Fully Sequenced ORF:** >NCBI ORF sequence for NM_148899, the custom clone sequence may differ by one or more nucleotides
 ATGATGACTCCCCAGGTGATCACCCCTCAGCAAATGCAGCAGATCCTTCAGCAACAAGTC
 CTGTCTCCTCAGCAGCTACAAGCCCTTCTCAACAACAGCAGGCTGTCATGCTGCAGCAG
 CAACAAC TACAAGAGTTTTACAAGAAACAGCAAGAGCAGTTACATCTTCAGCTTTTGAG
 CAGCAGCAGCAACAGCAGCAGCAGCAACAACAGCAGCAACAACAGCAGCAGCAACAACAA
 CAACAACAGCAGCAACAACAGCAGCAGCAGCAACAACAGCAGCAGCAGCAACAACAGCAT
 CCTGAAAAGCAAGCGAAAAGAGCAGCAGCAGCAGCAGCAGCAACAGCAATTGGCAGCC
 CAGCAGCTTGCTTCCAGCAGCAGCTTCTCCAGATGCAACAACCTCCAGCAGCAGCAGCAT
 CTGCTCAGCCTTCAGCGTCAGGGACTCATCTCCATTCCACCTGGCCAGGCAGCACTTCT
 GTCCAATCGCTGCCTCAAGCTGGCTTAAGTCTGCTGAGATTGAGCAGTTATGGAAAGAA
 GTGACTGGAGTTCACAGTATGGAAGACAATGGCATTAAACATGGAGGGCTAGACCTCACT
 ACTAACAATTCTCCTCGACTACCTCCTCAACACTTCCAAAGCATCACCACCAATAACT
 CATCATCCATAGTGAATGGACAGTCTTCAGTTCTAAGTGAAGACGAGACAGCTCGTCA
 CATGAGGAGACTGGGCCCTCTCACACTCTATGGCCATGGAGTTTGCAAATGGCCAGGC
 TGTGAAAAGCATTTGTGAAGATTTTGGACAGTTTTTAAAGCACCTTAACAATGAACACGCA
 TTGGATGACCGAAGCACTGCTCAGTGTGCGAGTGCAAAATGCAGGTGGTGAACAGTTAGAA
 ATACAGCTTTCTAAAGAACGCGAACGTCTTCAAGCAATGATGACCCACTTGACATGCGA
 CCCTCAGAGCCCAAACCTCTCCCAAACCTCTAAATCTGGTGTCTAGTGTACCATTGTCG
 AAGAATATGTTGGAGACATCCCCACAGAGCTTACCTCAAACCCCTACCACACCAACGGCC
 CCAGTCACCCCGATTACCCAGGGACCCTCAGTAATCACCCAGCCAGTGTGCCAATGTG
 GGAGCCATACGAAGGCGACATTCAGACAAATACAACATTCCCATGTCATCAGAAATTGCC
 CCAAACATGAATTTTATAAAAATGCAGATGTCAGACCTCCATTTACTTATGCAACTCTC
 ATAAGGCAGGCTATCATGGAGTCATCTGACAGGCAGTTAACACTTAATGAAATTTACAGC
 TGGTTTACACGGACATTTGCTTACTTCAGGCGTAAATGCAGCAACTTGGAAGAATGCACTA
 CGTCATAATCTTAGCCTGCACAAGTGTGTTTGTTCGAGTAGAAAATGTTAAAGGAGCAGTA
 TGGACTGTGGATGAAGTAGAATACCAGAAGCGAAGGTCACAAAAGATAACAGGAAGTCCA
 ACCTTAGTAAAAAATATACCTACCAGTTTAGGCTATGGAGCAGCTCTTAATGCCAGTTTG
 CAGGCTGCCTTGGCAGAGAGCAGTTTACCTTTGCTAAGTAATCCTGGACTGATAAATAAT
 GCATCCAGTGGCCTACTGCAGGCCGTCCACGAAGACCTCAATGGTTCTCTGGATCACATT
 GACAGCAATGGAACAGTAGTCCGGGCTGCTCACCTCAGCCGCACATACATTCAATCCAC
 GTCAAGGAAGAGCCAGTGATTGCAGAGGATGAAGACTGCCAATGCCTTAGTGACAACA
 GCTAATCACAGTCCAGAATTAGAAGACGACAGAGAGATTGAAGAAGAGCCTTTATCTGAA
 GATCTGGAA
- Restriction Sites:** Please inquire
- ACCN:** NM_148899
- 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:

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_148899.1](#), [NP_683697.1](#)

RefSeq Size: 2535 bp

RefSeq ORF: 1872 bp

Locus ID: 93986

UniProt ID: [O15409](#)

Cytogenetics: 7q31.1

Domains: FH

Protein Families: Transcription Factors

Gene Summary: 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]

Transcript Variant: This variant (3) differs in the 5' UTR, lacks an in-frame exon in the 5' coding region, and differs in the 3' coding region and 3' UTR, compared to variant 2. The resulting isoform (III) has a distinct C-terminus and is shorter than isoform II.