

Product datasheet for **SC314508**

FOXP2 (NM_014491) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXP2 (NM_014491) Human Untagged Clone
Tag:	Tag Free
Symbol:	FOXP2
Synonyms:	CAGH44; SPCH1; TNRC10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_014491 edited
ATGATGCAGGAATCTGCGACAGAGACAATAAGCAACAGTTCATGAATCAAAATGGAATG
AGCACTCTAAGCAGCCAATTAGATGCTGGCAGCAGAGATGGAAGATCAAGTGGTGACACC
AGCTCTGAAGTAAGCACAGTAGAACTGCTGCATCTGCAACAACAGCAGGCTCTCCAGGCA
GCAAGACAACCTCTTTTACAGCAGCAACAAGTGGATTGAAATCTCCTAAGAGCAGTGAT
AAACAGAGACCCTGCAGGTGCCTGTGTGTCAGTGGCCATGATGACTCCCCAGGTGATCACC
CCTCAGCAAATGCAGCAGATCCTTCAGCAACAAGTCTGTCTCCTCAGCAGCTACAAGCC
CTTCTCCAACAACAGCAGGCTGTATGCTGCAGCAGCAACAACACTACAAGATTTTACAAG
AAACAGCAAGAGCAGTTACATCTTCAGCTTTTGCAGCAGCAGCAGCAACAGCAGCAGCAG
CAACAACAGCAGCAACAACAGCAGCAGCAACAACAACAACAACAGCAGCAACAACAGCAG
CAGCAGCAGCAACAGCAGCAGCAGCAGCAACAGCATCCTGGAAAGCAAGCGAAAGAGCAG
CAGCAGCAGCAGCAGCAGCAACAGCAATTGGCAGCCCAGCAGCTTGTCTTCCAGCAGCAG
CTTCTCCAGATGCAACAACCTCCAGCAGCAGCAGCATCTGCTCAGCCTTCAGCGTCAGGGA
CTCATCTCCATTCACCTGGCCAGGCAGCACTTCTGTCCAATCGCTGCCTCAAGCTGGC
TTAAGTCTGCTGAGATTCAGCAGTTATGGAAAGAAGTACTGGAGTTCCACAGTATGGAA
GACAATGGCATTAAACATGGAGGCTAGACCTCACTACTAACAATTCCTCCTCGACTACC
TCCTCCAACACTTCCAAAGCATACCACCAATAACTCATCATTCCATAGTGAATGGACAG
TCTTCAGTTCTAAGTGCAAGACGAGACAGCTCGTCACATGAGGAGACTGGGGCTCTCAC
ACTCTCTATGGCCATGGAGTTTGCAAAATGGCCAGGCTGTGAAAGCATTGTGAAGATTTT
GGACAGTTTTTAAAGCACCTTAACAATGAACACGCATTGGATGACCGAAGCACTGCTCAG
TGTCGAGTGCAATGCAGGTGGTGCAACAGTTAGAAATACAGCTTTCTAAAGAACGGAA
CGTCTTCAAGCAATGATGACCCACTTGACATGCGACCCCTCAGAGCCCAAACCATCTCCC
AAACCTCTAAATCTGGTGTCTAGTGTACCATGTGCAAGAATATGTTGGAGACATCCCCA
CAGAGCTTACCTCAAACCCCTACCACCAACCGCCCCAGTCACCCCGATTACCCAGGGA
CCCTCAGTAATCACCCAGCCAGTGTGCCAATGTGGGAGCCATACGAAGGCGACATTC
GACAAATACAACATTCATGTCATCAGAAATTGCCCAAACATGAATTTTATAAAAAAT
GCAGATGTCAGACCTCCATTTACTTATGCAACTCTCATAAGGCAGGCTATCATGGAGTCA
TCTGACAGGCAGTTAACACTTAATGAAATTTACAGCTGGTTTACACGGACATTTGCTTAC
TTCAGGCGTAATGCAGCAACTTGAAGAATGCAGTACGTCATAATCTTAGCCTGCACAAG
TGTTTTGTTCGAGTAGAAAATGTTAAAGGAGCAGTATGGACTGTGGATGAAGTAGAATAC
CAGAAGCGAAGGTCACAAAAGATAACAGGAAGTCCAACCTTAGTAAAAAATATACCTACC
AGTTTAGGCTATGGAGCAGCTCTTAATGCCAGTTTGCAGGCTGCCTTGGCAGAGAGCAGT
TTACCTTTGTAAAGTAATCCTGGACTGATAAATAATGCATCCAGTGGCCTACTGCAGGCC
GTCCACGAAGACCTCAATGGTTCTCTGGATCACATTGACAGCAATGGAACAGTAGTCCG
GGCTGCTCACCTCAGCCGCACATACATTCAATCCACGTCAAGGAAGAGCCAGTGATTGCA
GAGGATGAAGACTGCCCAATGTCCTTAGTGACAACAGCTAATCACAGTCCAGAATTAGAA
GACGACAGAGAGATTGAAGAAGAGCCTTTATCTGAAGATCTGGAATGA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014491 unedited GCAAGGGATCCCAGGGAGTTGCTGTGGGCGGGAGACTGAAGATTGAAGTAAAGTATTAAG TCATGATGCAGGAATCTGCGACAGAGACAATAAGCAACAGTTCAATGAATCAAAATGGAA TGAGACTCTAAGCAGCCAATTAGATGCTGGCAGCAGAGATGGAAGATCAAGTGGTGACA CCAGCTCTGAAGTAAGCACAGTAGAACTGCTGCATCTGCAACAACAGCAGGCTCTCCAGG CAGCAAGACAACCTCTTTTACAGCAGCAACAAGTGGATTGAAATCTCCTAAGAGCAGTG ATAAACAGAGACCAGTGCAGGTGCTGTGTCAGTGGCCATGATGACTCCCAGGTGATCA CCCTCAGCAAAATGCAGCAGATCCCTTCAGCAACAAGTCCTGTCTCCTCAGCAGCTACAAG CCCTTCTCCAACAACAGCAGGCTGTCATGCTGCGCAGCAACAACACTACAAGATTTTACA AGAAACAGCAAGAGCAGTTACATCTTCAGCTTTTGCAGCAGCAGCAGCAACAGCAGCAGC AGCAACAACAGCAGCAACAACAGCAGCAGCAACAACAACAACAACAGCAGCAACAACAGC AGCAGCAGCAGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC AGCAGCAGCAGCAGCAGCAGCAACAGCAATTGGCAGCCCAGCAGCTTGGTCTTCAGCAGC AGCTTCTCCAGATGGGCACACTNCAGCAGCAGCAGCATCTGCTCAGCCTTCAGCGTCAGG GACTCATCTNCATTTACCTGGNCAGGCAGNACTTCTGTCCAATCGCTGC
Restriction Sites:	Please inquire
ACCN:	NM_014491
Insert Size:	4700 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:	<u>NM_014491.1</u> , <u>NP_055306.1</u>
RefSeq Size:	2472 bp
RefSeq ORF:	2148 bp
Locus ID:	93986
UniProt ID:	<u>O15409</u>
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 (1) lacks an in-frame exon in the 5' coding region, as compared to variant 2. The resulting isoform (I) 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.