

## Product datasheet for **RC215759**

### **FOXP2 (NM\_148899) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FOXP2 (NM_148899) Human Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>RC215759 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGACTCCCCAGGTGATCACCCCTCAGCAAATGCAGCAGATCCTTCAGCAACAAGTCTGTCTCCTC  
 AGCAGCTACAAGCCCTTCTCCAACAACAGCAGGCTGTCATGCTGCAGCAGCAACAACAGAGTTTTA  
 CAAGAAAACAGCAAGAGCAGTTACATCTTTCAGCTTTTGCAGCAGCAGCAGCAACAGCAGCAGCAACA  
 CAGCAGCAACAACAGCAGCAGCAACAACAACAACAGCAGCAACAACAGCAGCAGCAGCAGCAACAGC  
 AGCAGCAGCAGCAACAGCATCCTGGAAAGCAAGCGAAAGAGCAGCAGCAGCAGCAGCAGCAACAGCA  
 ATTGGCAGCCCAGCAGCTTGTCTTCCAGCAGCAGCTTCTCCAGATGCAACAACCTCCAGCAGCAGCAGC  
 CTGCTCAGCCTTACAGCTCAGGGACTCATCTCCATTCCACCTGGCCAGGCAGCACTTCTGTCCAATCGC  
 TGCCCTCAAGCTGGCTTAAGTCTGCTGAGATTCAGCAGTTATGGAAGAAGTGACTGGAGTTCACAGTAT  
 GGAAGACAATGGCATTAAACATGGAGGGCTAGACCTCACTACTAACAATTCCTCCTCGACTACCTCTCC  
 AACACTTCCAAGCATCACCACTAACTCATATTCCATAGTGAATGGACAGTCTTCAGTTCTAAGTG  
 CAAGACGAGACAGCTCGTCACATGAGGAGACTGGGGCCTCTCACACTCTCTATGGCCATGGAGTTTGCAA  
 ATGGCCAGGCTGTGAAAGCATTGTGAAGATTTGGACAGTTTTTAAAGCACCTTAACAATGAACACGCA  
 TTGGATGACCGAAGCACTGCTCAGTGTGAGTGCAGTGCAGGTGGTGAACAGTTAGAAATACAGCTTT  
 CTAAGAAGCGGAACGCTTCAAGCAATGATGACCCACTTGCACATGCGACCCCTCAGAGCCCAACCATC  
 TCCCAAACCTCTAAATCTGGTGTCTAGTGTCCCATGTGGAAGAATATGTTGGAGACATCCCACAGAGC  
 TTACCTCAAACCCCTACCACCAACGGCCCAAGTACCCCGATTACCCAGGGACCCTCAGTAATCACCC  
 CAGCCAGTGTGCCAATGTGGGAGCCATACGAAGGCGACATTAGACAAATACAACATTCATGTCATC  
 AGAAATTGCCCAACTATGAATTTTATAAAAAATGCAGATGTGAGACTCCATTTACTTATGCAACTCTC  
 ATAAGGCAGGCTATCATGGAGTCTGACAGGCACTTAACACTTAATGAAATTTACAGCTGGTTTACAC  
 GGACATTTGCTTACTTACGGCGTAAATGCAGCAACTTGAAGAATGCAGTACGTCATAATCTTAGCCTGCA  
 CAAGTGTGTTGTCGAGTAGAAAATGTTAAAGGAGCAGTATGGACTGTGGATGAAGTAGAATACCAGAAG  
 CGAAGGTCACAAAAGATAACAGGAAGTCCAACCTTAGTAAAAAATACCTACCAGTTTAGGCTATGGAG  
 CAGCTCTAATGCCAGTTTGCAGGCTGCCTTGGCAGAGAGCAGTTTACCTTTGCTAAGTAATCCTGGACT  
 GATAAATAATGCATCCAGTGGCCTACTGCAGGCCGTCCACGAAGACCTCAATGGTTCTCTGGATCACATT  
 GACAGCAATGAAACAGTAGTCCGGGCTGCTCACCTCAGCCGCACATACATTCAATCCACGTCAAGGAAG  
 AGCCAGTGATTGCAGAGGATGAAGACTGCCAATGTCTTAGTGACAACGCTAATCACAGTCCAGAATT  
 AGAAGACGACAGAGATTGAAGAAGAGCCTTTATCTGAAGATCTGGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC215759 protein sequence  
 Red=Cloning site Green=Tags(s)

MMTPQVITPQQMQQILQQQVLSPPQLQALLQQQQAVMLQQQQLEFYKQEQQLHLQLLQQQQQQQQQQ  
 QQQQQQQQQQQQQQQQQQQQQQQQHPGKQAKEQQQQQQQQQLAAQQLVFQQQLLQMQQLQQQQH  
 LLSLQRQGLISIPPGQAALPVQSLPQAGLSPAEIQQLWKEVTGVHSMEDNGIKHGGLDLTTNNSSTSS  
 NTSKASPPITHHSIVNGQSSVL SARRDSSSHEETGASHTLYGHGVCKWPGCESICEDFGQFLKHLNNEHA  
 LDDRSTAQCRVQM VVQLEIQLSKERERLQAMMTHLHMRPSEPKPSPKPLNLVSSVTMSKNMLETSPQS  
 LPQTPTPTAPVTPITQGPSVITPASVNPVGAIRRRHSDKYNIPMSSEIAPNYEFYKNADVRPPFTYATL  
 IRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNVVRHNL SLHKCFVRVENVKGAVWTVDEVEYQK  
 RRSQKITGSPTLVKNIPTSLGYGAALNASLQAALAESSLP LLSNPGLINNASSGLLQAVHEDLNGSLDHI  
 DSNGNSSPGCSPQPHIHSIHVKEEPVIAEDEDPCMSLVTTANHSPELEDDREIEEEPLESDLE

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6603\\_f05.zip](https://cdn.origene.com/chromatograms/mk6603_f05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_148899

**ORF Size:** 1869 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_148899.2](#)

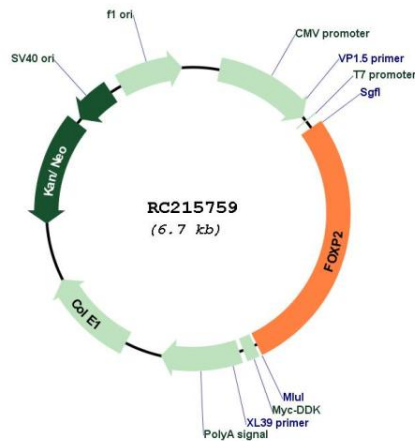
**RefSeq Size:** 1410 bp

**RefSeq ORF:** 1299 bp

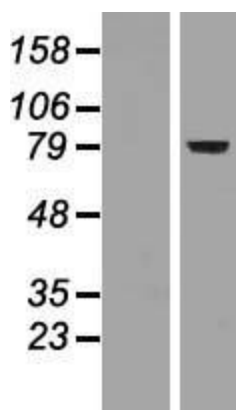
**Locus ID:** 93986  
**UniProt ID:** [O15409](#)  
**Cytogenetics:** 7q31.1  
**Domains:** FH  
**Protein Families:** Transcription Factors  
**MW:** 70.1 kDa

**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]

### Product images:



Circular map for RC215759



Western blot validation of overexpression lysate (Cat# [LY407756]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215759 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).