

Product datasheet for **SC328754**

FOXP2 (NM_001172767) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | FOXP2 (NM_001172767) 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) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001172767, the custom clone sequence may differ by one or more nucleotides |

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ATGATGCAGGAATCTGCGACAGAGACAATAAGCAACAGTTCAATGAATCAAAATGGAATG
AGCACTCTAAGCAGCCAATTAGATGCTGGCAGCAGAGATGGAAGATCAAGTGGTGACACC
AGCTCTGAAGTAAGCACAGTAGAACTGCTGCATCTGCAACAACAGCAGGCTCTCCAGGCA
GCAAGACAACCTTTTACAGCAGCAACAAGTGGATTGAAATCTCCTAAGAGCAGTGAT
AAACAGAGACCACTGCAGGAATTGCTTCCAGAAACAAAATTATGTATCTGTGGCCACTCT
TCTGGTGATGGGCATCTCACAACACATTTGCAGTGCCTGTGTGAGTGGCCATGATGACT
CCCCAGGTGATCACCCCTCAGCAAATGCAGCAGATCCTTCAGCAACAAGTCTGTCTCCT
CAGCAGCTACAAGCCCTTCTCCAACAACAGCAGGCTGTGATGCTGCAGCAGCAACAATA
CAAGAGTTTTACAAGAAACAGCAAGAGCAGTTACATCTTCAGCTTTTGCAGCAGCAGCAG
CAACAGCAGCAGCAGCAACAACAGCAGCAACAACAGCAGCAGCAACAACAACAACAG
CAGCAACAACAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAGCAACAGCATCCTGGAAAG
CAAGCGAAAGAGCAGCAGCAGCAGCAGCAGCAACAGCAATTGGCAGCCAGCAGCTT
GTCTTCCAGCAGCAGCTTCTCCAGATGCAACAACCTCCAGCAGCAGCAGCATCTGCTCAGC
CTTCAGCGTCAGGGACTCATCTCCATTCACCTGGCCAGGCAGCACTTCTGTCCAATCG
CTGCCTCAAGCTGGCTTAAGTCTGTGAGATTGAGCAGTTATGGAAAGAAGTGAAGTGA
GTTTACAGTATGGAAGACAATGGCATTAAACATGGAGGGCTAGACCTCACTACTAACAAT
TCCTCCTCGACTACCTCCTCCAACACTTCCAAGCATCACCACCAATAACTCATCATTCC
ATAGTGAATGGACAGTCTTCAGTTCTAAGTGCAAGACGAGACAGCTCGTCACATGAGGAG
ACTGGGGCTCTCACACTCTCTATGGCCATGGAGTTTGCAAATGGCCAGGCTGTGAAAGC
ATTTGTGAAGATTTTGGACAGTTTTTAAAGCACCTTAACAATGAACACGATTGGATGAC
CGAAGCACTGCTCAGTGTGAGTGCAAATGCAGGTGGTGAACAGTTAGAAATACAGCTT
TCTAAAGAACGCGAACGTCTTCAAGCAATGATGACCCACTTGCACATGCGACCTCAGAG
CCCAAACCATCTCCAAACCTGTAAGTGCATATTGCTTTATAACAGTAAATAG
  
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Restriction Sites: Please inquire


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| ACCN: | NM_001172767 |
| 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_001172767.1, NP_001166238.1</u> |
| RefSeq Size: | 1489 bp |
| RefSeq ORF: | 1374 bp |
| Locus ID: | 93986 |
| UniProt ID: | <u>Q15409</u> |
| 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 (6) differs in the 5' UTR, the 3' coding region and the 3' UTR, compared to variant 2. The resulting isoform (VI) has a distinct C-terminus and is shorter than isoform II.</p> |