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Product datasheet for SC103886

FOXP2 (AF493430) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXP2 (AF493430) Human Untagged Clone
Tag:	Tag Free
Symbol:	FOXP2
Synonyms:	CAGH44; SPCH1; TNRC10
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for AF493430, the custom clone sequence may differ by one or more nucleotides

ATGATGCAGGAATCTGCGACAGAGACAATAAGCAACAGTTCAATGAATCAAAATGGAATGAGCACTCTAA
GCAGCCAATTAGATGCTGGCAGCAGAGATGGAAGATCAAGTGGTGACACCAGCTCTGAAGTAAGCACAGT
AGAACTGCTGCATCTGCAACAACAGCAGGCTCTCCAGGCAGCAAGACAACTTCTTTTACAGCAGCAAACA
AGTGGATTGAAATCTCCTAAGAGCAGTGATAAACAGAGACCACTGCAGGAATTGCTTCCAGAAACAAAAT
TATGTATCTGTGGCCACTCTTCTGGTGATGGGCATCCTCACAACACATTTGCAGTGCCTGTGTCAGTGGC
CATGATGACTCCCCAGGTGATCACCCCTCAGCAAATGCAGCAGATCCTTCAGCAACAAGTCCTGTCTCCT
CAGCAGCTACAAGCCCTTCTCCAACAACAGCAGGCTGTCATGCTGCAGCAGGTAATGTGGGTTACCTGCT
TTGGTGTTCTAGCATGA

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5' Read Nucleotide Sequence:

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>OriGene 5' read for AF493430 unedited
GGGTGCAAATTATGTAATACGACTCACTTATAGGGCGGCCGCGAATTCGCACGAGGGTAA
ACAGTTGCCTGATGGTGGCTTTGACAGTGAGCTAGCTTCGGAGTTTTTCCTTCTTTTTAG
ACTGTTTTTCCCCCCCCGCACTGGCTTTTTGAATCTTCTTAATTTTTCATCTCTCTAACA
AACTCCTATGAAGTTGAAACCGGGAAGTTTGCTCTAACATTTCCAGAGAAGGTATTAAGT
CATGATGCAGGAATCTGCGACAGAGACAATAAGCAACAGTTCAATGAATCAAAATGGAAT
GAGCACTTTAAGCAGCCAATTAGATGCTGGCAGCAGGGATGGGAGATCAAGTGGTGACAC
CAGCTCTGAAGTAAGCACAGTGGAGCTGCTGCATCTGCAACAACAGCAGGCTCTCCAGGC
AGCAAGACAACTTTTGTTACAGCAGCAAACCAGTGGATTGAAATCTCCTAAGAGCAGTGA
GAAGCAGAGGCCACTGCAGGTGCCCGTGTCGGTGGCCATGATGACTCCCCAAGTGATCAC
CCCTCAGCAGATGCAGCAGATTCTTCAGCAGCAGGTCCTGTCTCCTCAGCAGCTCCAGGC
CCTCCTCCAGCAGCAAGCTGTGATGTTGCAGCAGCAACAACTACAAGAGTTTTACAAGAA
ACAGCAAGAACAGTTACATCTTCAGCTTTTGCAACAGCAGCAACAGCAGCAGCAGCTTCT
CCAATGCAGCAGCTACAGCAGCAACAACATCTGCTCAGCCTTCAGCGCCAGGNCCTCATC
TNCATCCCACCCCGCCAAGCAGCCCTTNCTGTCCAGTCGCTGCCTCAAGCTGGCTTAAGT
CCTGCTGAGATTCACCACCTATGGAAAGAAGTGACTGGAGTCCATAGTATGGAAGAACAC
CCGGCATCAGCATGGAGGCCTAGACCTTACGACCTACAATTC
```

Restriction Sites: NotI-NotI

ACCN: AF493430

Insert Size: 4000 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).

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: AF493430.1, AAM13672.1

RefSeq Size: 955 bp

RefSeq ORF: 507 bp

Locus ID: 93986

Cytogenetics: 7q31.1

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]