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Product datasheet for SC314589

FOXP2 (NM_148898) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXP2 (NM_148898) 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)

View online »

Fully Sequenced ORF:

>OriGene sequence for NM_148898 edited
ATGATGCAGGAATCTGCGACAGAGACAATAAGCAACAGTTCAATGAATCAAAATGGAATG
AGCACTCTAAGCAGCCAATTAGATGCTGGCAGCAGAGATGGAAGATCAAGTGGTGACACC
AGCTCTGAAGTAAGCACAGTAGAACTGCTGCATCTGCAACAACAGCAGGCTCTCCAGGCA
GCAAGACAACTTCTTTTACAGCAGCAAACAAGTGGATTGAAATCTCCTAAGAGCAGTGAT
AAACAGAGACCACTGCAGGAATTGCTTCCAGAAACAAAATTATGTATCTGTGGCCACTCT
TCTGGTGATGGGCATCCTCACAACACATTTGCAGTGCCTGTGTCAGTGGCCATGATGACT
CCCCAGGTGATCACCCCTCAGCAAATGCAGCAGATCCTTCAGCAACAAGTCCTGTCTCCT
CAGCAGCTACAAGCCCTTCTCCAACAACAGCAGGCTGTCATGCTGCAGCAGCAACAACTA
CAAGAGTTTTACAAGAAACAGCAAGAGCAGTTACATCTTCAGCTTTTGCAGCAGCAGCAG
CAACAGCAGCAGCAGCAACAACAGCAGCAACAACAGCAGCAGCAACAACAACAACAACAG
CAGCAACAACAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAGCAACAGCATCCTGGAAAG
CAAGCGAAAGAGCAGCAGCAGCAGCAGCAGCAACAGCAATTGGCAGCCCAGCAGCTT
GTCTTCCAGCAGCAGCTTCTCCAGATGCAACAACTCCAGCAGCAGCAGCATCTGCTCAGC
CTTCAGCGTCAGGGACTCATCTCCATTCCACCTGGCCAGGCAGCACTTCCTGTCCAATCG
CTGCCTCAAGCTGGCTTAAGTCCTGCTGAGATTCAGCAGTTATGGAAAGAAGTGACTGGA
GTTCACAGTATGGAAGACAATGGCATTAAACATGGAGGGCTAGACCTCACTACTAACAAT
TCCTCCTCGACTACCTCCTCCAACACTTCCAAAGCATCACCACCAATAACTCATCATTCC
ATAGTGAATGGACAGTCTTCAGTTCTAAGTGCAAGACGAGACAGCTCGTCACATGAGGAG
ACTGGGGCCTCTCACACTCTCTATGGCCATGGAGTTTGCAAATGGCCAGGCTGTGAAAGC
ATTTGTGAAGATTTTGGACAGTTTTTAAAGCACCTTAACAATGAACACGCATTGGATGAC
CGAAGCACTGCTCAGTGTCGAGTGCAAATGCAGGTGGTGCAACAGTTAGAAATACAGCTT
TCTAAAGAACGCGAACGTCTTCAAGCAATGATGACCCACTTGCACATGCGACCCTCAGAG
CCCAAACCATCTCCCAAACCTCTAAATCTGGTGTCTAGTGTCACCATGTCGAAGAATATG
TTGGAGACATCCCCACAGAGCTTACCTCAAACCCCTACCACACCAACGGCCCCAGTCACC
CCGATTACCCAGGGACCCTCAGTAATCACCCCAGCCAGTGTGCCCAATGTGGGAGCCATA
CGAAGGCGACATTCAGACAAATACAACATTCCCATGTCATCAGAAATTGCCCCAAACTAT
GAATTTTATAAAAATGCAGATGTCAGACCTCCATTTACTTATGCAACTCTCATAAGGCAG
GCTATCATGGAGTCATCTGACAGGCAGTTAACACTTAATGAAATTTACAGCTGGTTTACA
CGGACATTTGCTTACTTCAGGCGTAATGCAGCAACTTGGAAGAATGCAGTACGTCATAAT
CTTAGCCTGCACAAGTGTTTTGTTCGAGTAGAAAATGTTAAAGGAGCAGTATGGACTGTG
GATGAAGTAGAATACCAGAAGCGAAGGTCACAAAAGATAACAGGAAGTCCAACCTTAGTA
AAAAATATACCTACCAGTTTAGGCTATGGAGCAGCTCTTAATGCCAGTTTGCAGGCTGCC
TTGGCAGAGAGCAGTTTACCTTTGCTAAGTAATCCTGGACTGATAAATAATGCATCCAGT
GGCCTACTGCAGGCCGTCCACGAAGACCTCAATGGTTCTCTGGATCACATTGACAGCAAT
GGAAACAGTAGTCCGGGCTGCTCACCTCAGCCGCACATACATTCAATCCACGTCAAGGAA
GAGCCAGTGATTGCAGAGGATGAAGACTGCCCAATGTCCTTAGTGACAACAGCTAATCAC
AGTCCAGAATTAGAAGACGACAGAGAGATTGAAGAAGAGCCTTTATCTGAAGATCTGGAA
TGA

Restriction Sites: Please inquire

ACCN: NM_148898

Insert Size: 2200 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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 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_148898.1, NP_683696.1
RefSeq Size:	2547 bp
RefSeq ORF:	2223 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 (2) encodes the longest 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.