

# Recombinant Full Length Human FOXP2 Protein, C-Flag-tagged

Cat. No. FOXP2-1866HFL Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Recombinant Full Length Human FOXP2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

### Species

Human

### Source

Mammalian Cells

### Description

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.

### Form

25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

### Molecular Mass

79.7 kDa

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**AA Sequence**

MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSSEVSTVELLHLQQQ  
 QALQAARQLLLQQQT SGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQ  
 QVLSPQQQLQALLQQQAVMLQQQQLQEFYK KQQEQLHLQLLQQQQQQQQQQQ  
 QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQHPGKQAKEQQQQQQQQQQQL AA  
 QQLVFQQQLLQMQLLQQQHLLSLQRQGLISIPPGQAALPVQSLPQAGLSPAIEQQ  
 LWKEVTGVHSME DNGIKHGGLDLTTNNSSTTSSNTSKASPPITHHSIVNGQSSVLS  
 ARRDSSSHEETGASHTLYGHGVCKW PGCESICEDFGQFLKHLNNEHALDDRSTAQ  
 CRVQMQRVQQLEIQLSKERERLQAMMTHLHMRPSEPSP KPLNLVSSVTMSKMN  
 LETSPQSLPQTPTTPTAPVTPITQGSPVITPASVPNVGAIARRRHSKYNIPMSSE IAP  
 NYEFYKNADVRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKN  
 AVRHNLSLHK CFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGA  
 ALNASLQAALAESSPLLSNPGLI NNASSGLLQAVHEDLNGSLDHIDSNGNSSPGCS  
 PQPHIHSIHVKEEPVIAEDEDCPMSLVTTANHSPELE DDREIEEEPLSEDL TRTRPL  
 EQKLISEEDLAANDILDYKDDDDKV

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining.

**Stability**

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**Storage**

Store at -80 centigrade.

**Concentration**

>50 ug/mL as determined by microplate BCA method.

**Preparation**

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Protein Families**

Transcription Factors

**Full Length**

Full L.

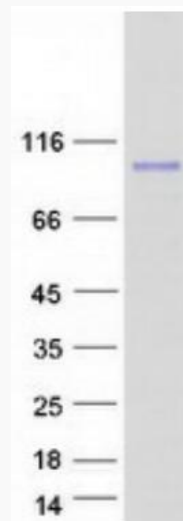
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## GENE INFORMATION

<b>Gene Name</b>	FOXP2 forkhead box P2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	FOXP2
<b>Synonyms</b>	SPCH1; CAGH44; TNRC10
<b>Gene ID</b>	93986
<b>mRNA Refseq</b>	NM_014491.4
<b>Protein Refseq</b>	NP_055306.1
<b>MIM</b>	605317
<b>UniProt ID</b>	O15409



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Coomassie blue staining of purified FOXP2 protein.

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