

Recombinant Human FOXP2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FOXP2-4407H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FOXP2 MS Standard C13 and N15-labeled recombinant protein (NP_055306) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	79.9 kDa
AA Sequence	MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSSEVSTVELLHLQQQ

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QALQAARQLLLQQQTSGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQ
 QVLSPQQLQALLQQQQAQVMLQQQQLQEFYKKQQEQLHLQLLQQQQQQQQQQQQ
 QQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQHPGKQAKEQQQQQQQQQQQLAAQ
 QLVFQQQLQMQQLQQQHLLSLQRQGLISIPPGQAALPVQSLPQAGLSPAEIQQL
 WKEVTGVHSMEDNGIKHGGDLTTNNSSSTTSSNTSKASPPITHHSIVNGQSSVLSA
 RRDSSSHEETGASHTLYGHGVCKWPGCESICEDFGQFLKHLNNEHALDDRSTAQC
 RVQMQRVQQLQLEIQLSKERERLQAMMTHLHMRPSEPSPKPLNLVSSVTMSKNML
 ETSPQSLPQTPTTPTAPVTPITQGPSVITPASVPNVGAIRRRHSDKYNIPMSSEIAPNY
 EFYKNADVRRPPFTYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRRNAATWKNV
 RHNLSLHKCFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGAALN
 ASLQAALAESSPLLSNPGLINNASSGLLQAVHEDLNGSLDHIDSNGNSSPGCSPQP
 HIHSIHVKEEPVIAEDEDCPMSLVTTANHSPELEDDREIEEEPLSEDLTRTRPLEQKL
 ISEEDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name FOXP2 forkhead box P2 [Homo sapiens (human)]

Official Symbol FOXP2

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Synonyms	FOXP2; forkhead box P2; SPCH1, TNRC10; forkhead box protein P2; CAG repeat protein 44; CAGH44; forkhead/winged helix transcription factor; speech and language disorder 1; trinucleotide repeat containing 10; forkhead/winged-helix transcription factor; trinucleotide repeat-containing gene 10 protein; SPCH1; TNRC10; DKFZp686H1726;
Gene ID	93986
mRNA Refseq	NM_014491
Protein Refseq	NP_055306
MIM	605317
UniProt ID	O15409
SDS-PAGE	