

Product datasheet for **RC214963**

FOXP2 (NM_148898) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXP2 (NM_148898) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FOXP2
Synonyms:	CAGH44; SPCH1; TNRC10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214963 representing NM_148898
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCAGGAATCTGCGACAGAGACAATAAGCAACAGTTCAATGAATCAAAATGGAATGAGCACTCTAA
 GCAGCCAATTAGATGCTGGCAGCAGAGATGGAAGATCAAGTGGTACACCAGCTCTGAAGTAAGCACAGT
 AGAACTGCTGCATCTGCAACAACAGCAGGCTCTCCAGGCAGCAAGACAACCTCTTTTACAGCAGCAAACA
 AGTGGATTGAAATCTCCTAAGAGCAGTGATAAACAGAGACCCTGCAGGAATTGCTTCCAGAAAACAAAAT
 TATGTATCTGTGGCCACTCTTCTGGTGATGGGCATCCTCACAAACATTTGCAGTGCCTGTGTCAGTGGC
 CATGATGACTCCCAGGTGATCACCCCTCAGCAAATGCAGCAGATCCTTCAGCAACAAGTCTGTCTCCT
 CAGCAGCTACAAGCCCTTCTCCAACAACAGCAGGCTGTCATGCTGCAGCAGCAACAACACTACAAGATTTT
 ACAAGAAAACAGCAAGAGCAGTTACATCTTCAGCTTTTGCAGCAGCAGCAGCAACAGCAGCAGCAGCAACA
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 GCAAGACGAGACAGCTCGTCACATGAGGAGACTGGGCTCTCACACTCTCTATGGCCATGGAGTTTGCA
 AATGGCCAGGCTGTGAAAGCATTGTGAAAGATTTTGGACAGTTTTTAAAGCACCTTAACAATGAACACGC
 ATTGGATGACCGAAGCACTGCTCAGTGTGAGTGCAAATGCAGGTGGTGAACAGTTAGAAATACAGCTT
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 TGATAAATAATGCATCCAGTGGCCTACTGCAGGCCGTCCACGAAGACCTCAATGGTTCTCTGGATCACAT
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 TAGAAGACGACAGAGAGATTGAAGAAGAGCCTTTATCTGAAGATCTGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214963 representing NM_148898
 Red=Cloning site Green=Tags(s)

MMQESATETISNSSMNQNGMSTLSSQLDAGSRDGRSSGDTSSSEVSTVELLHLQQQQALQAARQLLLQQQT
 SGLKSPKSSDKQRPLQELLPETKLCICGHSSGDGHPHNTFAVPVSVAMMTPQVITPQQMQQILQQQVLS
 PQQQALQQQQAVMLQQQQLQEFYKKQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQ
 QQQQQHPGKQAKEQQQQQQQQQLAAQQLVFQQQLQMQQLQQQHLQLSLQRQLISIPPGQAALPVQS
 LPQAGLSPAETIQQLWKEVTGVHSMEDNGIKHGGLDLTTNNSSTTSNTSKASPPITHHSIVNGQSSVLS
 ARRDSSSHEETGASHTLYGHVCKWPGCESICEDFGQFLKHLNNEHALDDRSTAQCRVQMVVQLEIQL
 SKERERLQAMTHLHMRPSEPKPSKPVNLVSSVTMSKNMLETSPQSLPQTPTTPTAPVPTITQGPSVIT
 PASVPNVGAIARRRHSKYNIPMSSEIAPNYEFYKNADVRRPPTYATLIRQAIMESSDRQLTLNEIYSWFT
 RTFAYFRRNAATWKNVHRHNLHLKCFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYG
 AALNASLQAALAESSLPLLSNPGLINNASSGLLQAVHEDLNGSLDHIDSNGNSSPGCSPQPHIHSIHVKE
 EPVIAEDEDPCMSLVTTANHSPELEDDREIEEEPLSEDL

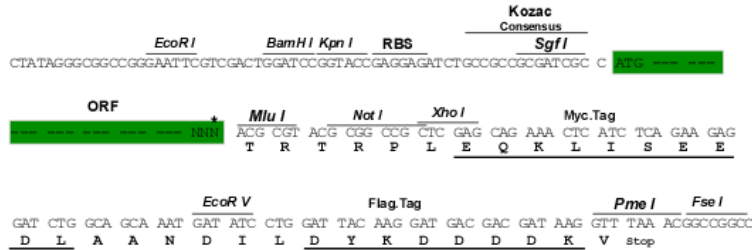
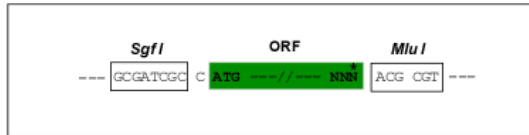
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

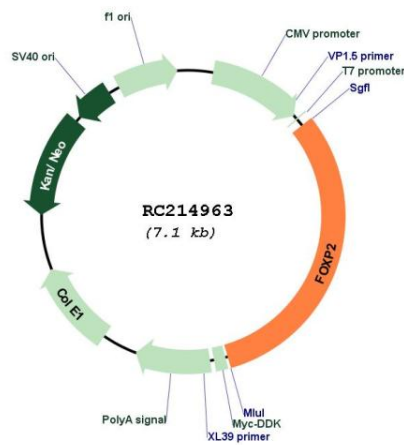
ACCN: NM_148898

ORF Size: 2220 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	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
MW:	82.4 kDa

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]

Product images:


Circular map for RC214963