

Product datasheet for **RG230464**

FOXP2 (NM_148900) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXP2 (NM_148900) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOXP2
Synonyms:	CAGH44; SPCH1; TNRC10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG230464 representing NM_148900
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCAGGAATCTGCGACAGAGACAATAAGCAACAGTTCAATGAATCAAAATGGAATGAGCACTCTAA
 GCAGCCAATTAGATGCTGGCAGCAGAGATGGAAGATCAAGTGGTACACCACTCTGAAGTAAAGCAGT
 AGAACTGCTGCATCTGCAACAACAGCAGGCTCTCCAGGCAGCAAGACAACCTCTTTTACAGCAGCAAACA
 AGTGGATTGAAATCTCCTAAGAGCAGTGATAAACAGAGACCAGTGCAGGTGCCTGTGTGAGTGGCCATGA
 TGACTCCCAGGTGATCACCCCTCAGCAAATGCAGCAGATCCTTCAGCAACAAGTCTGTCTCCTCAGCA
 GCTACAAGCCCTTCTCCAACAACAGCAGGCTGTCATGCTGCAGCAGGATTTTTGGATTCTGGATTGGAA
 AATTTTCAGAGCTGCCTTGAAAAAATCAACAACATAAGAGTTTTACAAGAAACAGCAAGAGCAGTTAC
 ATCTTCAGCTTTTGCAGCAGCAGCAACAGCAGCAGCAACAACAGCAGCAACAACAGCAGCAGCA
 ACAACAACAACAACAGCAGCAACAACAGCAGCAGCAGCAACAACAGCAGCAGCAGCAACAACAGCAGC
 GAAAGCAAGCGAAAGAGCAGCAGCAGCAGCAGCAGCAACAACAGCAATTGGCAGCCAGCAGCTTGCT
 TCCAGCAGCAGCTTCTCCAGATGCAACAACCTCCAGCAGCAGCAGCATCTGCTCAGCCTTACGCGTACGG
 ACTCATCTCCATTCACCTGGCCAGGCAGCACTTCTGTCCAATCGCTGCCTCAAGCTGGCTTAAGTCT
 GCTGAGATTACAGAGTTATGGAAGAAGTACTGGAGTTCACAGTATGGAAGACAATGGCATTAAACATG
 GAGGGCTAGACCTCACTACTAACAATTCCTCCTCGACTACCTCTCAACACTTCCAAAGCATCACCACC
 AATAACTCATCATTCCATAGTGAATGGACAGTCTTCAAGTCTAAGTGAAGACGAGACAGCTCGTCACAT
 GAGGAGACTGGGGCTCTCACACTCTCTATGGCCATGGAGTTTGAATGGCCAGGCTGTGAAAGCATT
 GTGAAGATTTTGGACAGTTTTTAAAGCACCTTAAACAATGAACAGCATTGGATGACCGAAGCAGTCTCA
 GTGTCGAGTGCAAATGCAGGTGGTGAACAAGTTAGAAATACAGCTTTCTAAAGAACGCGAACGTCTCAA
 GCAATGATGACCCACTTGACATGCGACCTCAGAGCCAAACCATCTCCAAACCTCTAAATCTGGTGT
 CTAGTGTACCATGTGCAAGAATATGTTGGAGACATCCCCACAGAGCTTACCTCAAACCCCTACCACACC
 AACGGCCCCAGTACCCCGATTACCCAGGGACCCTCAGTAATCACCCAGCCAGTGTGCCAATGTGGGA
 GCCATACGAAGGCGACATTCAGACAAATAACAATTCCCATGTCATCAGAAATTGCCCAAACCTATGAAT
 TTTATAAAAATGCAGATGTCAGACCTCCATTTACTTATGCAACTCTCATAAGGCAGGCTATCATGGAGTC
 ATCTGACAGGCAGTTAACTTAATGAAATTTACAGCTGGTTTACACGGACATTTGCTTACTTCAGGCGT
 AATGCAGCAACTTGAAGAATGCAGTACGTCAATCTTAGCCTGCACAAGTGTGTTGTTGAGTAGAAA
 ATGTTAAAGGAGCAGTATGGACTGTGGATGAAGTAGAATACCAGAAGCGAAGGTCACAAAAGATAACAGG
 AAGTCAAACCTTAGTAAAAAATATACCTACCAGTTTAGGCTATGGAGCAGCTCTTAATGCCAGTTTGCAG
 GCTGCCTTGGCAGAGAGCAGTTTACCTTTGCTAAGTAATCCTGGACTGATAAATAATGCATCCAGTGGCC
 TACTGCAGGCCGTCCACGAAGACCTCAATGGTTCTCTGGATCACATTGACAGCAATGGAACAGTAGTCC
 GGGCTGCTCACCTCAGCCGCACATACATTCAATCCACGTCAAGGAAGAGCCAGTATTGCAGAGGATGAA
 GACTGCCAATGTCCTTAGTGACAACAGCTAATCACAGTCCAGAATTAGAAGACGACAGAGAGATTGAAG
 AAGAGCCTTTATCTGAAGATCTGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230464 representing NM_148900
 Red=Cloning site Green=Tags(s)

```
MMQESATETISNSSMNQNGMSTLSSQLDAGSRDRSSGDTSSSEVSTVELLHLQQQALQAARQLLQQQT
SGLKSPKSSDKQRPLQVPVSVAMMTPQVITPQQMQQILQQQVLSQQQLQALLQQQAVMLQQDFLDSGLE
NFRAALEKNQQLQEFYKKQQEQLHLQLLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQHP
GKQAKEQQQQQQQQLAAQQLVFQQQLLQMQLQQQHLHLSLQRQGLISIPPGQAALPVQSLPQAGLSP
AEIQQLWKEVTGVHSMEDNGIKHGGLDLTTNNSSTTSSNTSKASPPITHHSIVNGQSSVLSARRDSSSH
EETGASHTLYGHGVCKWPGCESICEDFGQFLKHLNNEHALDDRSTAQCRVQMVVQQLLEIQLSKERERLQ
AMMTHLHMRPSEPKPSKPLNLVSSVTMSKNMLETSPQSLPQTPTTPTAPVTPITQGPSVITPASVNVG
AIRRRHSDKYNIPMSSEIAPNYEFYKNADVRRPFYATLIRQAIMESSDRQLTLNEIYSWFTRTFAYFRR
NAATWKNVNRHLSLHKCFVRVENVKGAVWTVDEVEYQKRRSQKITGSPTLVKNIPTSLGYGAALNASLQ
AALAESSPLLSNPGLINNASSGLLQAVHEDLNGSLDHIDSNGNSSPGCSPQPHIHSIHVKEEPVIAEDE
DCPMSLVTTANHSPELEDDREIEEEPLSEDL
```

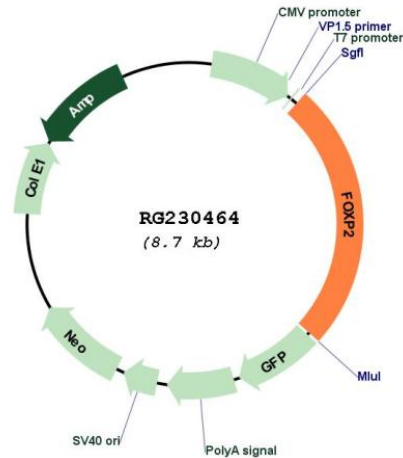
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_148900

ORF Size: 2196 bp

OTI Disclaimer: 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 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:

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_148900.3](#), [NP_683698.2](#)

RefSeq Size: 6424 bp

RefSeq ORF: 2199 bp

Locus ID: 93986

UniProt ID: [O15409](#)

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]