

Product datasheet for **RG217263**

RBFOX2 (NM_001082579) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBFOX2 (NM_001082579) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RBFOX2
Synonyms:	dj106l20.3; Fox-2; FOX2; fxh; HNRBP2; HRNBP2; RBM9; RTA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG217263 representing NM_001082579
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGAGGGCGCCAGCCGACGAGCCGCTCAGCTCGGGCCGGCGCCGCCCGGGGCATGAAGC
 GGGAGTCGGAGCTGGAGCTGCCGGTGCCCGGAGCGGGAGGAGACGGAGCCGATCCCGGCCTGAGCAAGCG
 GCCCGCACTGAGGAGGGCGGCCGACGGTGGCGGGGATGCAGAACGAGCCTCTGACTCCAGGTTAT
 CATGGATTCCCAGCGCGGACAGCCAGGGTAACCAGGAGCCGACAACAACCTCTGACGCAATGGTTCAGC
 CTTTTACTACCATCCATTTCCACCACCTCCGAGAATGGAATCCCACAGAGTATGGGGTGCCACACAC
 TCAAGACTATGCCGGCCAGACCGGTGAGCATAACCTGACACTCTACGGAAGTACGCAAGCCACGGGGAG
 CAGAGCAGCAACTCACCCAGCACACAAAATGGATCTCTTACGACAGAAGGTGGAGCACAGACAGACGGCC
 AGCAGTCACAGACACAAAGTAGTAAAAATTCAGAGAGTAAATCTACCCCGAAACGGCTGCATGTCTCTAA
 TATTCCTTCCGCTTCCGGGACCCTGACCTCCGGCAGATGTTTGGCAGTTTGGCAAAATCTAGATGTA
 GAAATAATCTTTAATGAACGTGGCTCTAAGGGATTCCGGTTCGTAACCTTCGAGAATAGTGCTGATGCAG
 ACAGGGCCAGGGAGAAATTACACGGCACCGTGGTAGAGGGCCGTAATAATCGAGGTGAATAATGCTACAGC
 ACGTGTATGACCAATAAGAAGATGGTCACACCATATGCAATGGTTGGAAATTAAGCCCAGTAGTTGGA
 GCTGTATATGGTCCGGAGTTATATGCAGCATCCAGCTTCAAGCAGATGTGTCCCTAGGCAATGATGCAG
 CAGTGCCCTATCAGGAAGAGGGGGTATCAACACTTACATTCTTTAATCAGTCTCCCTTTAGTTCCTGG
 CTTCCCTTACCCTACTGCAGCCACCACGGCAGCCGCTTTCAGAGGAGCCCATTTGAGGGGAGAGGGCGG
 ACAGTATATGGTGCAGTCCGAGCGGTACCTCCAACAGCCATCCCGCCTATCCAGGTGTGGTTTACCAGG
 ACGGATTTTACGGTCTGACCTCTATGGTGGATATGCAGCCTACAGATATGCACAGCCTGCTACTGCAAC
 CGCAGCCACCGCTGCTGCAGCCGCTTACAGTACCGTTATGGCAGGGTGTACACAGCCGAC
 CCTACCATGCCCTTGCCCTGCCCTAGCTATGGAGTTGGCGCTGTGGCGAGTTTATACCGAGGTGGCT
 ACAGCCGATTTGCCCTAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217263 representing NM_001082579
 Red=Cloning site Green=Tags(s)

MAEGAQPQPPQLGPGAAARGMKRESELELPVPGAGGDGADPGLSKRPRTEEAAADGGGMQNEPLTPGY
 HGFPARDSQGNQEPTTTPDAMVQPFITIPFPPPPQNGIPIEYGVPHQDYAGQTGEHNL TLYGSTQAHGE
 QSSNSPSTQNGSLTTEGGAQTDGQSQTSSENSESKSTPKRLHVSNIPIFRFRDPDLRQMFQFGKILDV
 EIIIFNERGSKGFGVTFENSADADRAREKLHGTVVEGRKIEVNNATARVMTNKKMVTPTYANGWKLSPVVG
 AVYGPETYAASSFQADVSLGNDAAVPLSGRGGINTYIPLISLPLVPGFPYPTAATTAARFRGAHLRGRGR
 TVYGAVRAVPPTAIPAYPGVVYQDFYGDLYGGYAAARYAQPATATAATAAAAAAAYSDGYGRVYTAD
 PYHALAPAASYGVGAVASLYRGGYSRFAPY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001082579

ORF Size: 1350 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_001082579.2](#)

RefSeq Size: 6954 bp

RefSeq ORF: 1353 bp

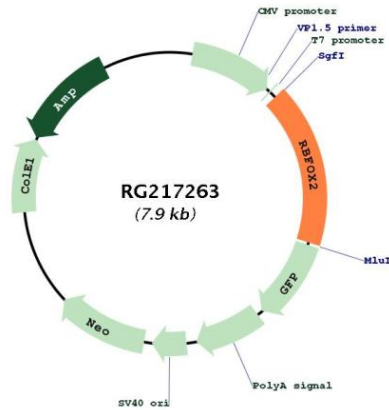
Locus ID: 23543

Cytogenetics: 22q12.3

Protein Families: Druggable Genome, Transcription Factors

Gene Summary:

This gene is one of several human genes similar to the *C. elegans* gene Fox-1. This gene encodes an RNA binding protein that is thought to be a key regulator of alternative exon splicing in the nervous system and other cell types. The protein binds to a conserved UGCAUG element found downstream of many alternatively spliced exons and promotes inclusion of the alternative exon in mature transcripts. The protein also interacts with the estrogen receptor 1 transcription factor and regulates estrogen receptor 1 transcriptional activity. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG217263