

## Product datasheet for **RG217209**

### **RBFOX2 (NM\_001082578) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RBFOX2 (NM_001082578) 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:**

>RG217209 representing NM\_001082578  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCGGAGGGCGCCAGCCGACGAGCCGCTCAGCTCGGGCCGGCGCCGCCCGGGGCATGAAGC  
 GGGAGTCGGAGCTGGAGCTGCCGGTGCCCGGAGCGGGAGGAGACGAGCCGATCCCGGCCTGAGCAAGCG  
 GCCGCGCACTGAGGAGGCGGGCGCCGACGGTGGCGGGGATGCAGAACGAGCCTCTGACTCCAGGTTAT  
 CATGGATTCCCAGCGCGGACAGCCAGGGTAACCAGGAGCCGACAACAACCTCTGACGCAATGGTTCAGC  
 CTTTTACTACCATCCATTTCCACCACCTCCGAGAATGGAATCCCACAGAGTATGGGGTGCCACACAC  
 TCAAGACTATGCCGGCCAGACCGGTGAGCATAACCTGACACTCTACGGAAGTACGCAAGCCACGGGGAG  
 CAGAGCAGCAACTACCCAGCACACAAAATGGATCTCTTACGCAGACAGAAGGTGGAGCACAGACAGACG  
 GCCAGCAGTACAGACACAAAAGTAGTAAAATTCAGAGAGTAAATCTACCCGAAACGGCTGCATGTCTC  
 TAATATTCCTTTCCGCTCCGGGACCTGACCTCCGGCAGATGTTGGGCAGTTTGGCAAAATCCTAGAT  
 GTAGAAAATAATCTTTAATGAACGTGGCTCTAAGGGATTCCGGTTCGTAACCTTCGAGAATAGTGCTGATG  
 CAGACAGGGCCAGGGAGAAATTACACGGCACCGTGGTAGAGGGCCGTAATCGAGGTGAATAATGCTAC  
 AGCACGTGTAATGACCAATAAGAAGATGGTCACACCATATGCAAAATGGTTGAAATTAAGCCAGTAGTT  
 GGAGCTGTATATGGTCCGGAGTTATATGCAGCATCCAGCTTTCAGCAGATGTGTCCCTAGGCAATGATG  
 CAGCAGTGCCCTATCAGGAAGAGGGGGTATCAACACTTACATTCCTTTAATCAGTCTCCCTTAGTTCC  
 TGGCTTCCCTTACCCTACTGCAGCCACCACGGCAGCCGCTTTCAGAGGAGCCATTTGAGGGCAGAGGG  
 CGGACAGTATATGGTGCAGTCCGAGCGGTACCTCCAACAGCCATCCCGCCTATCCAGGTGTGGTTTACC  
 AGGACGGATTTACGGTGTGACCTCTATGGTGGATATGCAGCCTACAGATATGCACAGCCTGCTACTGC  
 AACCGCAGCCACCCTGCTGCAGCCGCTGCAGCCGCTTACAGTGACGGTTATGGCAGGGTGTACACAGCC  
 GACCCCTACCATGCCCTTCCCTGCGCTAGCTATGGAGTTGGCGCTGTGGCGAGTTTATACCGAGGTG  
 GCTACAGCCGATTTGCCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG217209 representing NM\_001082578  
 Red=Cloning site Green=Tags(s)

MAEGAQPQQPQLGPGAAARGMKRESELELPVPGAGGDGADPGLSKRPRTEEAAADGGGGMQNEPLTPGY  
 HGFPARDSQGNQEPTTTPDAMVQPFITIPFPPPPQNGIPIEYGVPHQDYAGQTGEHNL TLYGSTQAHGE  
 QSSNSPSTQNGSLTQTEGGAQTDGQSQTSSENSESKSTPKRLHVSNIPIFRFRDPLRQMFQFGKILD  
 VEIIFNERGSKGFGFVTFENSADADRAREKLHGTVVEGRKIEVNNATARVMTNKKMVTPTYANGWKLSPVV  
 GAVYGPPELYAASSFQADVSLGNDAAVPLSGRGGINTYIPLISLPLVPGFPYPTAATTAFAFRGAHLRGRG  
 RTVYGA VRAVPPTAIPAYPGVVYQDGFYADLYGGYAYRYAQPATATAATAAAAAAAAAAYSDGYGRVYTA  
 DPYHALAPAASYGVGAVASLYRGGYSRFAPY

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001082578

**ORF Size:** 1353 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\\_001082578.3](#)

**RefSeq Size:** 6957 bp

**RefSeq ORF:** 1356 bp

**Locus ID:** 23543

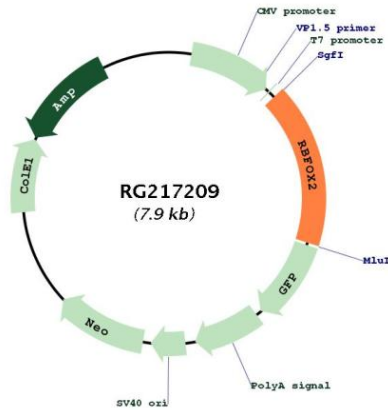
**UniProt ID:** [O43251](#)

**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 RG217209