

## Product datasheet for **RG222904**

### **RBFOX2 (NM\_014309) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RBFOX2 (NM_014309) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RBFOX2
Synonyms:	dj106l20.3; Fox-2; FOX2; fxb; HNRBP2; HRNBP2; RBM9; RTA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222904 representing NM_014309 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAAAAAGAAAATGGTAACTCAGGGTAACCGAGGCCGACAACAACCTCTGACGCAATGGTTCAGC  
CTTTTACTACCATCCCATTCCACCACCTCCGAGAATGGAATCCCACAGAGTATGGGGTGCCACACAC  
TCAAGACTATGCCGGCCAGACCGGTGAGCATAACCTGACACTCTACGGAAGTACGCAAGCCACGGGGAG  
CAGAGCAGCAACTCACCCAGCACACAAAATGGATCTCTTACGCAGACAGAAGGTGGAGCACAGACAGACG  
GCCAGCAGTCACAGACACAAAGTAGTAAAATTCAGAGAGTAAATCTACCCGAAACGGTGCATGTCTC  
TAATATTCCTTTCCGCTCCGGGACCCTGACCTCCGGCAGATGTTTGGGCAGTTTGGCAAAATCCTAGAT  
GTAGAAAATAATCTTAATGAACGTGGCTCTAAGGGATTCCGGTTCGTAACCTTCGAGAATAGTGCTGATG  
CAGACAGGGCCAGGGAGAAATTACACGGCACCGTGGTAGAGGGCCGTAATCGAGGTGAATAATGCTAC  
AGCACGTGTAATGACCAATAAGAAGATGGTCACACCATATGCAAAATGGTTGGAAATTAAGCCAGTAGTT  
GGAGCTGTATATGGTCCGGAGTTATATGCAGCATCCAGCTTCAAGCAGATGTGTCCCTAGGCAATGATG  
CAGCAGTGCCCTATCAGGAAGAGGGGGTATCAACTTACATTCCTTTAATCATTCTGGCTTCCCTTA  
CCCTACTGCAGCCACCACGGCAGCCGCTTTCAGAGGAGCCCATTTGAGGGGCAGAGGGCCGACAGTATAT  
GGTGCAGTCCGAGCGGTACCTCCAACAGCCATCCCCGCTATCCAGGGTGGATATGCAGCCTACAGATA  
TGACAGCCTGCTACTGCAACCGCAGCCACCGCTGCTGCAGCCGCTGCAGCCGCTTACAGTGACGGTTAT  
GGCAGGGTGTACACAGCCGACCCCTACCATGCCCTTGCCCTGCCGCTAGCTATGGAGTTGGCGCTGTGG  
CGAGTTTATACCGAGGTGGCTACAGCCGATTTGCCCTACTGAAGTGACG

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222904 representing NM\_014309  
 Red=Cloning site Green=Tags(s)

MEKKKMTVQGNQEPTTTPDAMVQPFTTIPFPPPPQNGIPTEYGVPHQTQDYAGQTGEHNL TLYGSTQAHGE  
 QSSNSPSTQNGSLTQTEGGAQTDGQQSQTQSSENSESKSTPKRLHVSNI PFRFRDPDLRQMFGQFGKILD  
 VEIIFNERGSKGFGFVTFENSADADRAREKLHGT VVEGRKIEVNNATARVMTNKKMVTYPYANGWKLSPVV  
 GAVYGPELYAASSFQADVSLGNDAAVPLSGRGGINTYIPLIIPGFYPTAATTA AAFRGAHLRGRGRTVY  
 GAVRAVPPTAIPAYPGVDMQPTDMHSLLLQPQPPLLQPLQPLTVTMAGCTQPTPTMPLPLPLAMELALW  
 RVYTEVATADLPTEVT

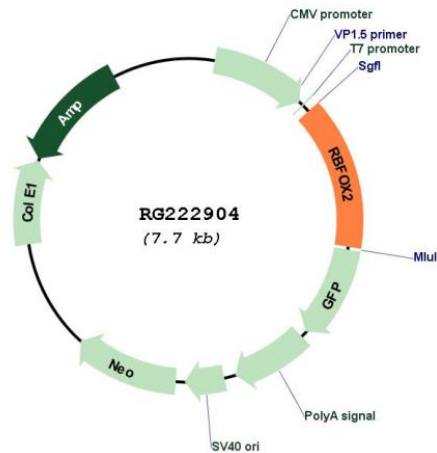
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_014309

<b>ORF Size:</b>	1101 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_014309.4</a>
<b>RefSeq Size:</b>	1876 bp
<b>RefSeq ORF:</b>	1104 bp
<b>Locus ID:</b>	23543
<b>UniProt ID:</b>	<a href="#">O43251</a>
<b>Cytogenetics:</b>	22q12.3
<b>Domains:</b>	RRM
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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]