

## Product datasheet for **SC315999**

### **RBFOX2 (NM\_001082579) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RBFOX2 (NM_001082579) Human Untagged Clone
Tag:	Tag Free
Symbol:	RBFOX2
Synonyms:	dj106l20.3; Fox-2; FOX2; fxh; HNRBP2; HRNBP2; RBM9; RTA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001082579 edited  
 CCGGCTCCCGGAGGCGAGGGGGCGCGGGCGGATGGCGGAGGGCGCCAGCCGAGCAGC  
 CGCCTCAGCTCGGGCCCGCGCCCGCGGGGCATGAAGCGGGAGTCGGAGCTGGAGC  
 TGCCGGTGCCCGGAGCGGGAGGAGACGGAGCCGATCCCGGCTGAGCAAGCGGCCGCA  
 CTGAGGAGGCGGGCGCCGACGGTGGCGGGGATGCAGAACGAGCCTCTGACTCCAGGTT  
 ATCATGGATTCCAGCGGGGACAGCCAGGGTAACCGAGGCGGACAACTCCTGACG  
 CAATGGTTCAGCCTTTACTACCATCCCATTTCCACCACCTCCGAGAATGGAATCCCA  
 CAGAGTATGGGGTGCCACACACTCAAGACTATGCCGGCCAGACCGGTGAGCATAACCTGA  
 CACTCTACGGAAGTACGCAAGCCACGGGGAGCAGAGCAGCAACTCACCCAGCACACAAA  
 ATGGATCTTTACGACAGAAGGTGGAGCACAGACAGACGGCCAGCAGTCACAGACACAAA  
 GTAGTGAAAATTCAGAGAGTAAATCTACCCGAAACGGCTGCATGTCTAATATTCCTT  
 TCCGCTCCGGGACCCTGACCTCCGGCAGATGTTTGGGCAGTTTGGCAAATCCTAGATG  
 TAGAAATAATCTTTAATGAACGTGGCTCTAAGGGATTCGGGTTTCGTAACCTTCGAGAATA  
 GTGCTGATGCAGACAGGGCCAGGAGAAAATTACACGGCACCGTGGTAGAGGGCCGTA  
 TCGAGGTGAATAATGCTACAGCACGTGTAATGACCAATAAGAAGATGGTCACACCATATG  
 CAAATGGTTGAAATTAAGCCCAGTAGTTGGAGCTGTATATGGTCCGGAGTTATATGCAG  
 CATCCAGCTTTCAAGCAGATGTGTCCTAGGCAATGATGCAGCAGTGCCCTATCAGGAA  
 GAGGGGTATCAACACTTACATTCCTTTAATCAGTCTCCCTTTAGTTCCTGGCTCCCTT  
 ACCCTACTGCAGCCACCACGGCAGCCGCTTTCAGAGGAGCCCATTTGAGGGGCGAGGGGC  
 GGACAGTATATGGTGCAGTCCGAGCGGTACCTCCAACAGCCATCCCCGCCTATCCAGGTG  
 TGGTTTACCAGGACGGATTTTACGGTGTGACCTCTATGGTGGATATGCAGCCTACAGAT  
 ATGCACAGCCTGCTACTGCAACCGCAGCCACCGCTGCTGCAGCCGCTGCAGCCGCTTACA  
 GTGACGGTTATGGCAGGGTGTACACAGCCGACCCCTACCATGCCCTTGCCCTGCCGCTA  
 GCTATGGAGTTGGCGCTGTGGCGAGTTTATACCGAGGTGGCTACAGCCGATTTGCCCCCT  
 ACTGAAGTGACGTGAGACCCCTGCAATGGGACAGCCCCCAGTTTCATGAGGCCTGGCTA  
 TTGCAATATTTACTAGTAGAGGAACTCTATAGCAAGATGAAGAGGAAAAACAAACAAACA  
 AACAAAAAACAACAAAAAAGAAAGAACTTTTTTATACCTCACTATGTTCTTTGAA  
 TATGTATTTTTCTTTAAATTTCTGCCTTTAATCTTTTGTTCCAAAGATTGTGCATTTT  
 TTTCTTTTTTTTTTAACTGTGGTAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001082579

**Insert Size:** 1700 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001082579.1](#), [NP\\_001076048.1](#)

**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]

Transcript Variant: This variant (6) contains a distinct 5' UTR and 5' CDS, compared to variant 1. The resulting protein (isoform 6) is longer and has a distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.