

Product datasheet for **SC315997**

RBFOX2 (NM_001082576) Human Untagged Clone

Product data:

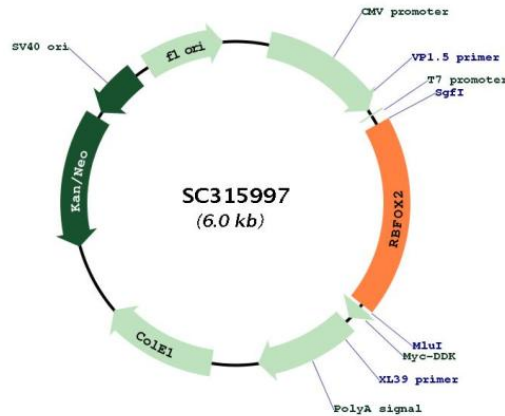
Product Type:	Expression Plasmids
Product Name:	RBFOX2 (NM_001082576) Human Untagged Clone
Tag:	Tag Free
Symbol:	RBFOX2
Synonyms:	dj106l20.3; Fox-2; FOX2; fxb; HNRBP2; HRNBP2; RBM9; RTA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315997 representing NM_001082576. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGAAAAAGAAAATGGTAACTCAGGTAACCAGGAGCCGACAACAACCTCTGACGCAATGGTTCAG
CCTTTTACTACCATCCCATTCCACCACCTCCGCAGAATGGAATCCCACAGAGTATGGGGTGCCACAC
ACTCAAGACTATGCCGGCCAGACCGGTGAGCATAACCTGACACTTACGGAAGTACGCAAGCCCACGGG
GAGCAGAGCAGCAACTCACCCAGCACACAAAATGGATCTTACGACAGAAGGTGGAGCACAGACAGAC
GGCCAGCAGTACAGACACAAAGTAGTAAAATTCAGAGAGTAAATCTACCCGAAACGGCTGCATGTC
TCTAATATTCCTTCCGCTTCCGGGACCCTGACCTCCGGCAGATGTTGGGCAGTTGGCAAATCCTA
GATGTAGAAATAATCTTTAATGAACGTGGCTCTAAGGGATTCCGGTTCGTAACCTTCGAGAATAGTGCT
GATGCAGACAGGGCCAGGGAGAAATACACGGCACCGTGGTAGAGGGCCGTAATAATCGAGGTGAATAAT
GCTACAGCACGTGTAATGACCAATAAGAAGATGGTACACCATATGCAATGGTTGGAAATTAAGCCCA
GTAGTTGGAGCTGTATATGGTCCGGAGTTATATGCAGCATCCAGCTTCAAGCAGATGTGCCCTAGGC
AATGATGCAGCAGTGCCCTATCAGGAAGAGGGGTATCAACACTTACATTCCTTAATCATTCTGGC
TTCCCTTACCCTACTGCAGCCACCACGGCAGCCGCTTTCAGAGGAGCCATTTGAGGGCAGAGGGCGG
ACAGTATATGGTGCAGTCCGAGCGGTACCTCCAACAGCCATCCCCGCTATCCAGGTGTGGTTTACCAG
GACGGATTTTACGGTGTGACCTCTATGGTGGATATGCAGCTACAGATATGCACAGCCTGCTACTGCA
ACCGCAGCCACCGCTGCTGCAGCCGCTGCAGCCGCTTACAGTGACGGTTATGGCAGGGTGTACACAGCC
GACCCCTACCATGCCCTTGCCCTGCCGCTAGCTATGGAGTTGGCGCTGTGGCGAGTTTATACCGAGGT
GGCTACAGCCGATTTGCCCTACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:


ACCN: NM_001082576

Insert Size: 1131 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_001082576.1](#)

RefSeq Size: 6985 bp

RefSeq ORF: 1131 bp

Locus ID: 23543

UniProt ID: [O43251](#)

Cytogenetics: 22q12.3
Protein Families: Druggable Genome, Transcription Factors
MW: 40 kDa

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 (3) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The resulting protein (isoform 3) is 4-aa shorter than 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.