

Product datasheet for **SC127805**

RBFOX2 (NM_014309) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBFOX2 (NM_014309) Human Untagged Clone
Tag:	Tag Free
Symbol:	RBFOX2
Synonyms:	dj106l20.3; Fox-2; FOX2; fxb; HNRBP2; HRNBP2; RBM9; RTA
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014309, the custom clone sequence may differ by one or more nucleotides

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ATGGAGAAAAAGAAAATGGTAACTCAGGGTAACCAGGAGCCGACAACAACCTCCTGACGCAATGGTTCAGC
CTTTTACTACCATCCCATTTCCACCACCTCCGAGAATGGAATCCCACAGAGTATGGGGTGCCACACAC
TCAAGACTATGCCGGCCAGACCGGTGAGCATAACCTGACACTCTACGGAAGTACGCAAGCCCACGGGGAG
CAGAGCAGCAACTCACCCAGCACACAAAATGGATCTCTTACGCAGACAGAAGGTGGAGCACAGACAGACG
GCCAGCAGTCACAGACACAAAGTAGTAAAATTCAGAGAGTAAATCTACCCGAAACGGTGCATGTCTC
TAATATTCCTTTCCGCTTCCGGGACCCTGACCTCCGGCAGATGTTTGGGCAGTTTGGCAAAATCCTAGAT
GTAGAAAATAATCTTTAATGAACGTGGCTCTAAGGGATTCCGGTTCGTAACCTTCGAGAATAGTGCTGATG
CAGACAGGGCCAGGGAGAAATTACACGGCACCGTGGTAGAGGGCCGTAATAATCGAGGTGAATAATGCTAC
AGCACGTGTAATGACCAATAAGAAGATGGTCACACCATATGCAAAATGGTTGGAATTAAGCCCAGTAGTT
GGAGCTGTATATGGTCCGGAGTTATATGCAGCATCCAGCTTTCAAGCAGATGTGTCCCTAGGCAATGATG
CAGCAGTGCCCTATCAGGAAGAGGGGGTATCAACACTTACATTCCTTTAATCATTCTGGCTTCCCTTA
CCCTACTGCAGCCACCACGGCAGCCGCTTTCAGAGGAGCCATTTGAGGGGCAGAGGGCCGACAGATAT
GGTGCAGTCCGAGCGGTACCTCCAACAGCCATCCCCGCCTATCCAGGGGTGGATATGCAGCTACAGATA
TGCACAGCTGCTACTGCAACCGCAGCCACCGCTGCTGCAGCCGCTGCAGCCGCTTACAGTGACGGTTAT
GGCAGGGTGTACACAGCCGACCCCTACCATGCCCTTGCCCTGCCGCTAGCTATGGAGTTGGCGCTGTGG
CGAGTTTATACCGAGGTGGCTACAGCCGATTTGCCCCCTACTGAAGTGACGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014309 unedited
 CTCACTATAGGGCGGCCGAATTCGCACGAGGGAAGAAACATTAGAAAGAAAAAGGAAG
 GAAAACGGTATAAAGAGAGATCAATTACCCACCCTTAAATAGCTAGATTGGGGGGGAGG
 GGGGTGAAAAAGAAAGCTGTGGAGGTGTGCCCCAGCAGGCTGCTTTGAAAGTTTATCA
 TCTATCCGTTTGGTTTATGGAGAAAAAGAAAATGGTAACCTAGGGTAACCCAGGAGCCGAC
 AACAACTCCTGACGCAATGGTTTCAGCCTTTTACTACCATCCCATTCCACCACCTCCGCA
 GAATGGAATCCACAGAGTATGGGGTGCCACACACTCAAGACTATGCCGGCCAGACCGG
 TGAGCATAACCTGACACTCTACGGAAGTACGCAAGCCACGGGGAGCAGAGCAGCAACTC
 ACCCAGCACACAAAATGGATCTCTTACGACAGAAGGTGGAGCACAGACAGACGGCCAGCA
 GTCACAGACACAAAGTAGTGAAAATTCAGAGAGTAAATCTACCCGAAACGGCTGCATGT
 CTCTAATATTCCTTTCCGCTCCCGGACCCTGACCTCCGGCAGATGTTTGGGGCAGTTTG
 GCAAAATCCTAGATGTAGAAATAATCTTTATGGACGTGGCTTTAGGAATCCGGTTCTA
 ACTTTTCAAATAGGGGTGATGCCAACCGGGCCCGAAAAATACACGCGCCCGGGTAA
 AGGGCCCTAAAATCCGGGGGAATAGGCTCCCAACCCTTTATAACCCATAAAAAAAG
 GGCCCCCCTTTCCCAAAGTTGAAAATAACCCCTATTTGGGGACTTTTAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014309 unedited
 GGTTGTTTTTCTCTTTAACTTGCTATANAGTTCCTCTACTAGTAAATATTGCAATAGC
 CAGGCCTCATGAACTGGGGGCTGTCCATTTGCAGGGTCTCACGTCACTTCAGTAGGG
 GGCAAATCGGCTGTAGCCACCTCGGTATAAACTCGCCACAGCGCAACTCCATAGCTAGC
 GGCAGGGGCAAGGGCATGGTAGGGTCCGCTGTGTACACCCTGCCATAACCGTCACTGTA
 AGCGGCTGCAGCGGCTGCAGCAGCGGTGGCTGCGGTTGCAGTAGCAGGCTGTGCATATCT
 GTAGGCTGCATATCCACCCCTGGTTGAACTGAAAACATTTTGCCAAATTTTATTTAAAG
 GGGACCCCCCAAAAACCCCCCTGGGGAAAACCCCCCTTTAATATGGGGGGGTTTTT
 TTTTTTGAAGAGAACACCCCNAAACCACAAAAAATATTGTGCCGCCCCCCCCCCCC
 CCCCCAAAGGGGNCCTTAAAAAATAAACATTTCGGGGGGGGTGGGGGNNGGGG
 GGGGGGGGGCCCCCCCCCCCCCAGGGAAGGGNAAAATAAAGGAGGGGGGGCCCCG
 GGTCCCCCCCCCTCCCTTCGCCGGGGGGGGGGGGTGGGTTCTCTCTCCCCCCCC
 CATATTACCACCCGCTGGGGGGCGCGTTTCCCTTTCTTCCCCACCCTACCCTCCC
 CACCCCTTCCCTNCTTCTCTCCACATTCNTTCCGCCCCCNCCCCGGTTCGTNNC
 TCTTTCTTCCACCTCCCNACCNATCCACCCACCNATACCAATTTTTTTCTCCCCCCC
 CCTTCCCTCCCCCNCGCCCTGCTGTGTCGCTCCNCCCTCCTTTTNNCCCCCTCCT
 CCTTCTTCTTCTCTCCACCCCTCCCCCTTTCCATTTTCTCCCCCCCCCTTT
 CCGCGCTTTTACTTCCCTCCCCGCCCCGCTGA

Restriction Sites:

NotI-NotI

ACCN:

NM_014309

Insert Size:

1530 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).

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_014309.1](#), [NP_055124.1](#)

RefSeq Size: 1876 bp

RefSeq ORF: 1104 bp

Locus ID: 23543

UniProt ID: [O43251](#)

Cytogenetics: 22q12.3

Domains: RRM

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 (2) uses two alternate in-frame splice sites in the coding region, and lacks an alternate exon in the 3' coding region that results in a frameshift, compared to variant 1. The resulting protein (isoform 2) is shorter and has a distinct C-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.