

Product datasheet for **SC110486**

RBFOX1 (NM_018723) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBFOX1 (NM_018723) Human Untagged Clone
Tag:	Tag Free
Symbol:	RBFOX1
Synonyms:	2BP1; A2BP1; FOX-1; FOX1; HRNBP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110486 sequence for NM_018723 edited (data generated by NextGen Sequencing)

```
ATGAATTGTGAAAGAGAGCAGCTAAGGGGTAATCAGGAAGCAGCCGCTGCCCTGACACA
ATGGCTCAGCCTTACGCTTCGGCCAGTTTGCTCCCCCGAGAACGGTATCCCCGCGGAA
TACACGGCCCTCATCCCCACCCCGCGCAGAGTACACAGGCCAGACCAGGTTCCCGAG
CACACATTAACCTGTACCCTCCCGCCAGACGACTCCGAGCAGAGCCCGCGGACAG
AGCGCTCAGACCGTCTCTGGCACCGCCACACAGACAGATGACGCAGCACCGGATGGC
CAGCCCCAGACACAACCTTCTGAAAACACGAAAAACAAGTCTCAGCCCAAGCGGCTGCAT
GTCTCCAATATCCCCTTCAGGTTCCGGGATCCGGACCTCAGACAAATGTTTGGTCAATTT
GGTAAAACTTAGATGTTGAAATATTTTTAATGAGCGAGGCTCAAAGGGATTTGGTTTC
GTAACTTTCGAAAATAGTGCCGATGCGGACAGGGCGAGGGAGAAATTACACGGCACCGTG
GTAGAGGGCCGTAAAATCGAGGTAATAATGCCACAGCAGTGTAAATGACAAATAAAAAG
ACCGTCAACCCCTTATACAAATGGCTGGAATTTGAATCCAGTTGTGGTGCACTACAGT
CCCGAATTCTATGCAGGCACGGTCTGTGTGCCAGGCCAACAGGAGGGATCTCCATG
TACAGTGCCCCAGTTCACTTGTATATACTTCTGCAATGCCAGGCTTCCCGTATCCAGCA
GCCACGGCCGCGGCCCTACCGAGGGGCGCACCTGCGAGGCCGCGGTGCGACCGTGTAC
AACACCTTCAGGGCCGCGGCCCGCCCCGATCCCGGCTACGGCGGTGTTGTTTAC
CAGGATGGATTTTATGGTGCAGACATTTATGGTGGTTATGCTGCATACCGCTACGCCAG
CCTACCCCTGCCACTGCCGCTGCCTACAGTGACAGTTACGGACGAGTTTATGCTGCCGAC
CCCTACCACGCACTTGCTCCAGCCCCACCTACGGCGTTGGTGCCATGAATGCTTTT
GCACCTTTGACTGATGCCAAGACTAGGAGCCATGCTGATGATGTGGGTCTCGTTCTTTCT
TCATTGCAGGCTAGTATATACCGAGGGGATACAACCGTTTTGCTCCATACTAA
```

Clone variation with respect to NM_018723.3



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_018723 unedited TTCAACAATTTGTAATACGACTCACTATAGGGCGGCNCGCGAATTCGCACGAGGCTCTTG CTGGCCGTCTGGGTGCACACACCCTCCCTCGATACCCAGCCCCCTTCTGGTCTCCC GAGCGCGGGTTTGAAGGTCACCTCCTTTCCAGTCCCCGTGCGAGCCGCGCTGCCGCCG CTCCTCCAGCCAGAGTCGGTGGGACTGGCTGCGCTGCCCTGAAGTGGTTCTCAAGCAGC GCGGAGGGTGGCGGACGGGACGGAGCCAGGGGCCGCGTCGGGTGGGAAACCCGAAC TCGCGGAGGGGAATCCCTCCCCCTCCGCCAGCCCCCAGCAGCACCCGCGGTGGGGCG GGGGCGCTCTGCCAGCCCCGGAACAGCAGAGGGCGCGGCACTGGCTGGACCCACCGCGG CGCTCCGGGGCTGAAGAAGGAAGGAGTGAGCCGAGCCGAGCACCCACATCTGGAGGGG ACAGCCAGCCGTGGGCCCGCCCCGGCGTCCGGAGCAGGAGAACTCCGAGCTTCTTGCCC AGGCAGAGAGAGCAGGAGCGGACCGCGCCCCGGGATTGAGAGTCCTTGCCTCCAGACC CCCACCCAGTGGCCGCCAGGGTCCCCGCCTGTCCGGACCCTCGCCGCGCCAGGCAGGCG CGCCAGGGCGGTTGCTGACCCTGCCGGAAGTTGCGGACAGTGCCTGAGAAACCAGCACC CCCTTTNCGCCCTCCAGCTTATGGTGAGTGTGGCTGGGGTGCATAAAGCGCACCCGT ATTTCCGGGTTCTGGGGCCCATAACTGACCGCAGCCGGGCTCCCCGGGAGTTCCTAGA CACTGGTCCAAGAAGCTATGCCAGTGAACTTACACCTTCTTGATCGGACTCGCCTTCA AAATTAAGCAGACTGCCATACCTGCGTGAATAACAAAACN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_018723 unedited GGACCGCGGCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTATTAGAATTTTTTT TTTTTTTAGAGTTGCTAAATGATGTACTACTGCATGTATTGCAATACTCAGGCCTCGGA AAGCTTCTTTTCCCCACATTGGAAGTTTTTATGGTTTTGTCATTTAGTATGGAGCAA AACGGTTGTATCCCCCTCGGTATATACTAGCCTGCAATGAAGAAAGAACGAGACCCACAT CATCAGCATGGCTCCTATTCTTGCCATCAGTCAAAGGTGCAAAAGCATTATGGCACCAA CGCCGTATGTGGGGCTGGAGCAAGTGCCTGGTGGTAGGGTTCGGCAGCATAAACTCGTC CGTAACTGCTACTGTAGGCAGCGCAGTGGCAGGGTAGGCTGGGCGTATCGGTATGCAG CATAACCACCATAAATGTCTGCACCATAAAATCCATCCTGGTAAACAACCCGCCGTATG CCGGATCGGGGGCGGGGGCGCCGCGGCCCTGAAGGTGTTGTACACGGTGCACCCGCGC CTCGCAGGTGCGCCCCTCGGTAGCGCGCCGCGCGGTGGCTGTGGATACGGGAAGCCTG GCATTGCAGAAGTATATACAAGTGAAGTGGGGCACTGTACATGGAAGATCCCTCCTGGT TGGCCTGGCCAACAGGACCGTGCCTGATATGATTGGGACTGTAGACTGCACCCACAAT GGATTCAATTTCCAGCCATTGTATAAAGNTTTTGACGGTCTTTTTATTTGCATTACACGT GCTGTGGCATTATTACCCTCGATTTTACGGCCTTACCCCGNTGCCCGTGAATTTCTCC TTCGCTGTTTCGCATCGCACTATTTTTGAAGTACGATACCAAATCCCTTTGAGCCTCG CTCATTAATAAATATTTCAACTNCTAAGATTTACCNATGACAACATGNGNCGGAGNCCG ATCCCGAACCTAAGGGGATATTGGAGACTGCANNCGCGNCTGAACTTGNTTTTCAGTT TAA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_018723
Insert Size:	2390 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_018723.2](#), [NP_061193.2](#)

RefSeq Size: 2279 bp

RefSeq ORF: 1194 bp

Locus ID: 54715

UniProt ID: [Q9NWB1](#)

Cytogenetics: 16p13.3

Domains: RRM

Gene Summary: The Fox-1 family of RNA-binding proteins is evolutionarily conserved, and regulates tissue-specific alternative splicing in metazoa. Fox-1 recognizes a (U)GCAUG stretch in regulated exons or in flanking introns. The protein binds to the C-terminus of ataxin-2 and may contribute to the restricted pathology of spinocerebellar ataxia type 2 (SCA2). Ataxin-2 is the product of the SCA2 gene which causes familial neurodegenerative diseases. Fox-1 and ataxin-2 are both localized in the trans-Golgi network. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Transcript Variant: This variant (4) differs in the 5' UTR and lacks an in-frame section of the 3' coding region, compared to variant 1. This results in a shorter isoform (4) with an alternate N-terminus compared to isoform 1. Variants 4 and 6 both encode isoform 4. 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.