

Product datasheet for **SC112316**

SECISBP2 (NM_024077) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SECISBP2 (NM_024077) Human Untagged Clone
Tag:	Tag Free
Symbol:	SECISBP2
Synonyms:	SBP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112316 sequence for NM_024077 edited (data generated by NextGen Sequencing)

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ATGGCGTCGGAGGGGCCGCGGGAGCCCGAAAGCGAGGGCATCAAGTTATCAGCAGATGTC
AAACCATTTGTCCCAGATTTGCCGGGCTCAATGTGGCATGGTTAGAGTCCTCAGAAGCA
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CAGAAATGTTTACTCAGTGCCTGGCTCCAGTATCTTTATAACCAACCCAGTTGTTACCGA
GGTTTTCAAACAGTGAAGCATCGAAATGAGAACACATGCCCTCTCCACAAAGAAATGAAA
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Clone variation with respect to NM_024077.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024077 unedited
 ATAGGCGGGCCGCGAATTCGCACGAGGGTCGCCTGCGGGGGCGGAAACGCTTTGTCTGTC
 CCGCAAGCCGACGGCCCGCTGCTGGCCTCCGTGACGCGGCCTCCTCCGCGCTCGCGGCA
 TGGCGTCGGAGGGGCGCGGGAGCCCGAAAGCGAGGGCATCAAGTTATCAGCAGATGTCA
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 GTGTCTTCCCCAGCTCTGCAGCCACATACTATCCGTTTGTTCAGGAACCACCAGTGACAG
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 CNAGTGGGGACCCTGTNCACTCTGNCTCTACC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024077 unedited
 TGGACCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTAAATAATTACT
 CTTTATTTAAAATAAATAAGCCCTTACTTACAGGGNAAAATATGAAAGCAAACCTGT
 CCTCCTGGTCTAAGACAGAAAACCACATTCAGAATATGTTTCATTGAAAAAGGAAAGATTTG
 TTGATTATCAAACAAATCTAGGTAATACACATTGTTTCTTTGAAAAATAAAGACT
 GAAAGGAATAATTCATTTCAAAAAGTCACAGGTTAGAAAACCAATTTTCTTCTGAGGCT
 CATTTTAGCAAATCCTCAAGTGTTCCTCAATCTTTTAAAAAAGTACATCCCCTGAGAA
 AGGGCCCTTTCCCTGTAGCCCTCTTGTCTGACACCAGCAGCCCTGCACCCTTCTGCCAA
 GTGGCTCCCTGCAGGACGGTGTGTTGCCGGCAGGAATGGCCCTCCATGGCAACCTCCA
 GCAGGCAGGAGCTCACCACCTGCTTTCTGCAAACCTCACTCACTTGGCTCAGCTATTCTGC
 AATGGAGAGGAAGTTTCTTAGCAGCCAAAGTATTCTAAGTATCACATTTTCCAGTATTT
 TCCAGATCCGTAGTGTGCTCAGAAAGCCAGAGCTGTATCACCAGGCTTTTAGAGAAGATT
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 TGCTTTATGTGCCCTTAATGCTGATCAATTTCCAGATTCAACAGTTACACAATTACATT
 GTCATGAAAAACAGAGAAAAAGCCCAAGTCTTTTTTTCAGACCTTCCCTCCTTACCCAAA
 TACAGACCCAGGCAGAACTTTATAAAATCAATTCATCATTGGGAGGTTGAACCTTCAGG
 TATTTTTAGTCCGGGACATCCCTGATGCTTCAAAGATTTTTCAATTAAGAAGGGGTTT
 TCTTTTTTAGCGGGGGCTTTTTTCAGGACTGGGCTGGGGAACCTTA

Restriction Sites:

NotI-NotI

ACCN:

NM_024077

Insert Size:

3630 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_024077.2](#), [NP_076982.2](#)

RefSeq Size: 3457 bp

RefSeq ORF: 2565 bp

Locus ID: 79048

UniProt ID: [Q96T21](#)

Cytogenetics: 9q22.2

Domains: Ribosomal_L7Ae

Gene Summary: The protein encoded by this gene is one of the essential components of the machinery involved in co-translational insertion of selenocysteine (Sec) into selenoproteins. Sec is encoded by the UGA codon, which normally signals translation termination. The recoding of UGA as Sec codon requires a Sec insertion sequence (SECIS) element; present in the 3' untranslated regions of eukaryotic selenoprotein mRNAs. This protein specifically binds to the SECIS element, which is stimulated by a Sec-specific translation elongation factor. Mutations in this gene have been associated with reduction in enzymatic activity of type II iodothyronine deiodinase (a selenoprotein) and abnormal thyroid hormone metabolism. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2017]
Transcript Variant: This variant (1) represents the predominant transcript, and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.