

Product datasheet for **SC337454**

SECISBP2 (NM_001282690) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SECISBP2 (NM_001282690) Human Untagged Clone
Tag:	Tag Free
Symbol:	SECISBP2
Synonyms:	SBP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001282690, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTTTGGAGCTTCAACTTTTCCACCTCAGTATTTATCTTCTGAGATAACTTTCATCCATATGCCT
ATTCTCCTTATACCTTGACTCCACACAGAATGTTTACTCAGTGCCTGGCTCCCAGTATCTTTATAACCA
ACCCAGTTGTTACCGAGTTTTTCAAACAGTGAAGCATCGAAATGAGAACACATGCCCTCTCCACAAGAA
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TGAGAATAGTTTGAATCAGATGGTTACCATAAGCGAACAGACAGGAAATCCAGAATCATTGCAAAAAAT
GTATCTACCTCCAAACCTGAGTTTGAATTTACCACACTGGACTTTCCTGAACTGCAAGGTGCAGAGAACA
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ATGTTGTTGACAGACATTATCTACAGAACTGTCAGCAGCCCCTAAAAATGTTACTTCTATGATAAACTT
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CCTTCTACAACAAGAAAAACACATTATTCATCTACCCAAAAGTCTAAAGCATCACAAGTAGTGACC
TTGAACAAAAATGAAGCCTCAAGAAAAGAAATAGAAAAAGAAAAGAAAATCTACATCAAAATATGAAGTCT
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TCAGCATGCAAAGCAGTCTCCAACCAAGTGGTAGTCTCAGTTGGAGCAGTGCCAGTCTTTCCAAGAA
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TGTGGTGGGGATCTTTCAGCTATGATGGGGCCAGGATCAGTTCCACAAGATGGTTGAGCTGACAGTGGCG
GCCCGACAGGCGTACAAGACCATGTGGAGAAATGTGCAGCAGGAGCTGGTGGGAGAGCCAGGCCTCAGG
CACCTCCAGCCTACCCACACAGGGCCCGAGCTGCCCTGCAGAAGATGGCCCCCAGCCCTGAAAGAAAA
AGAAGAGCCCACTACATTGAAATCTGGAAAAACATCTGGAAGCATACAGTGGATGTACCCTGGAGCTA
GAAGAATCCTTGGAGGCTTCAACCTCTCAAATGATGAATTTGAATTTATGA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001282690

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:	<ol style="list-style-type: none">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:	<u>NM_001282690.1, NP_001269619.1</u>
RefSeq Size:	3612 bp
RefSeq ORF:	2361 bp
Locus ID:	79048
Cytogenetics:	9q22.2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) contains an alternate 5' terminal exon, which results in translation initiation from an in-frame downstream start codon compared to variant 1. The encoded isoform (4) has a shorter N-terminus compared to 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.</p>