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Product datasheet for SC123792

SBP2 (BC001189) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	SBP2
Synonyms:	MGC3156
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for BC001189 edited
GGCAAGCCGACGGCCCGCTGCTGGCCTCCGTGACGCGGCCTCCTCCGCGCCTCGCGGCAT
GGCGTCGGAGGGGCCGCGGGAGCCCGAAAGCGAGGGCATCAAGTTATCAGCAGATGTCAA
ACCATTTGTCCCCAGATTTGCCGGGCTCAATGTGGCATGGTTAGAGTCCTCAGAAGCATG
TGTCTTCCCCAGCTCTGCAGCCACATACTATCCGTTTGTTCAGGAACCACCAGTGACAGA
AATGTTTACTCAGTGCCTGGCTCCCAGTATCTTTATAACCAACCCAGTTGTTACCGAGGT
TTTCAAACAGTGAAGCATCGAAATGAGAACACATGCCCTCTCCCACAAGAAATGAAAGCT
CTGTTTAAGAAGAAAACCTATGATGAGAAAAAAACGTATGATCAGCAAAAGTTTGACAGT
GAAAGGGCTGATGGAACTATATCATCTGAGATAAAATCAGCTAGAGGTTCACATCATTTG
TCCATTTACGCTGAGAATAGTTTGAAATCAGATGGTTACCATAAGCGAACAGACAGGAAA
TCCAGAATCATTGCAAAAAATGTATCTACCTCCAAACCTGAGTTTGAATTTACCACACTG
GACTTTCCTGAACTGCAAGGTGCAGAGAACAATATGTCAGAGATACAGAAGCAACCCAAG
TGGGGACCTGTCCACTCTGTCTCTACCGACATTTCTCTTCTAAGAGAAGTAGTAAAACCA
GCTGCAGTGTTATCAAAGGGTGAAATAGTGGTGAAAAATAACCCAAATGAATCTGTAACT
GCTAATGCCGCTACCAATTCTCCTTCATGTACAAGAGATCCTAAAAATGTTAGTATACCA
TCTTCTGAAGCTTTATCTTCGGATCCTTCCTACAACAAAGAAAAACACATTATTCATCCT
ACCCAAAAGTCTAAAGCATCACAAGGTAGTGACCTTGAACAAAATGAAGCCTCAAGAAAG
AATAAAAAAAAAAAAAAAAAA

View online »

5' Read Nucleotide Sequence:

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>OriGene 5' read for BC001189 unedited
TGTCAATTTTGTATACGACTCACTAAGGGCGGCCGCGAATTCGCACGAGGGGCAAGCCGA
CGGCCCGCTGCTGGCCTCCGTGACGCGGCCTCCTCCGCGCCTCGCGGCATGGCGTCGGAG
GGGCCGCGGGAGCCCGAAAGCGAGGGCATCAAGTTATCAGCAGATGTCAAACCATTTGTC
CCCAGATTTGCCGGGCTCAATGTGGCATGGTTAGAGTCCTCAGAAGCATGTGTCTTCCCC
AGCTCTGCAGCCACATACTATCCGTTTGTTCAGGAACCACCAGTGACAGAAATGTTTACT
CAGTGCCTGGCTCCCAGTATCTTTATAACCAACCCAGTTGTTACCGAGGTTTTCAAACAG
TGAAGCATCGAAATGAGAACACATGCCCTCTCCCACAAGAAATGAAAGCTCTGTTTAAGA
AGAAAACCTATGATGAGAAAAAAACGTATGATCAGCAAAAGTTTGACAGTGAAAGGGCTG
ATGGAACTATATCATCTGAGATAAAATCAGCTAGAGGTTCACATCATTTGTCCATTTACG
CTGAGAATAGTTTGAAATCAGATGGTTACCATAAGCGAACAGACAGGAAATCCAGAATCA
TTGCAAAAAATGTATCTACCTCCAAACCTGAGTTTGAATTTACCACACTGGACTTTCCTG
AACTGCAGGTGCAGAGAACAATATGTCAGAGATACANGAAGCACCCAAGTGGGGACCTGT
CCACTCTGTCTCTACCGACATTTCTCTTCTAAGAAAGTAGTAAAACCAGCTGCAGTGTTA
TCAAAGGGTGAAATAGTGGTGAAAAATAACCANATGAATCTGTAACTGCTAATGCCGCTA
CCAATNCTCCTTCATGTACAAGAGATCCTAANAATGNTAGTATACCATCTTCTGAAGCTT
TATCTTCGATCCTTCTACACANAA
```

Restriction Sites: Please inquire

ACCN: BC001189

Insert Size: 981 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: BC001189.1, AAH01189.1

RefSeq Size: 981 bp

Locus ID: 79048

Cytogenetics: 9q22.2

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]