

## Product datasheet for **SC117650**

### Selenium Binding Protein 1 (SELENBP1) (NM\_003944) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Selenium Binding Protein 1 (SELENBP1) (NM_003944) Human Untagged Clone
Tag:	Tag Free
Symbol:	Selenium Binding Protein 1
Synonyms:	EHMTO; HEL-S-134P; hSBP; LPSB; MTO; SBP56; SP56
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC117650 sequence for NM\_003944 edited (data generated by NextGen Sequencing)

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ATGGCTACGAAATGTGGGAATTGTGGACCCGGCTACTCCACCCCTCTGGAGGCCATGAAA
GGACCCAGGGAAGAGATCGTCTACCTGCCCTGCATTTACCGAAACACAGGCACTGAGGCC
CCAGATTATCTGGCCACTGTGGATGTTGACCCCAAGTCTCCCAAGTATTGCCAGGTCATC
CACCGGCTGCCCATGCCAACCTGAAGGACGAGCTGCATCACTCAGGATGGAACACCTGC
AGCAGTGCCTTCGGTGATAGCACCAAGTCGCGCACCAAGCTGGTGCTGCCAGTCTCATC
TCCTCTCGCATCTATGTGGTGGACGTGGGCTCTGAGCCCCGGGCCCAAAGCTGCACAAG
GTCATTGAGCCCAAGGACATCCATGCCAAGTGCGAACTGGCCTTTCTCCACACCAGCCAC
TGCTGGCCAGCGGGGAAGTGATGATCAGCTCCCTGGGAGACGTCAAGGGCAATGGCAA
GGGGGTTTTGTGCTGCTGGATGGGAGACGTTGAGGTGAAGGGGACATGGGAGAGACCT
GGGGGTGCTGCACCGTTGGGCTATGACTTCTGGTACCAGCCTCGACACAATGTCATGATC
AGCACTGAGTGGGACGCTCCCAATGTCTTACGAGATGGCTTCAACCCCGCTGATGTGGAG
GCTGGACTGTACGGGAGCCACTTATATGTATGGGACTGGCAGCGCCATGAGATTGTGCAG
ACCTGTCTCTAAAAGATGGGCTTATTCCCTTGGAGATCCGCTTCTGCACAACCCAGAC
GCTGCCCAAGGCTTTGTGGGCTGCGCACTCAGCTCCACCATCCAGCGCTTCTACAAGAAC
GAGGGAGGTACATGGTCAAGTGGAGAAGGTGATCCAGGTGCCCCCAAGAAAGTGAAGGGC
TGGCTGTGCCGAAATGCCAGGCTGATCACCGACATCTGCTCTCCCTGGACGACCGC
TTCCTCTACTTCAGCAACTGGTGCATGGGACCTGAGGCAGTATGACATCTCTGACCCA
CAGAGACCCCGCCTCACAGGACAGCTCTTCTCGGAGGCAGCATTGTTAAGGGAGGCCCT
GTGCAAGTGTGGAGGACGAGGAACTAAAGTCCCAGCCAGAGCCCTAGTGGTCAAGGGA
AAACGGGTGGCTGGAGGCCCTCAGATGATCCAGCTCAGCCTGGATGGGAAGCGCCTCTAC
ATCACCACGTGCTGTACAGTGCCTGGGACAAGCAGTTTTACCTGATCTCATCAGGGAA
GGCTCTGTGATGCTGCAGGTTGATGTAGACACAGTAAAAGGAGGGCTGAAGTTGAACCC
AACTTCTGTTGACTTCGGGAAGGAGCCCTTGCCCAAGCCCTTGCCCATGAGCTCCGC
TACCCTGGGGCGATTGTAGCTCTGACATCTGGATTTGA
    
```

Clone variation with respect to NM\_003944.2

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_003944 unedited
GTTGCAGNAATTATGAAACACGATCTTCACTATAGGGCGGCACGCCAATTCGGCAGGAG
GCACAGCATACCCGCCGGATCAAAGTGTACCACCCGGCAGCATGGCTACGAAATGTGGG
AATTGTGGACCCGGCTACTCCACCCCTCTGGAGGCCATGAAAGGACCCAGGGAAGAGATC
GTCTACCTGCCCTGCATTTACCGAAACACAGGCACTGTATTGTCCAGATTATCTGGCCA
CTGTGGATGTTGACCCCAAGTCTCCCAAGTATTGCCAGGTATCCACCGGCTGCCCATGC
CCAACCTGAAGGACGAGCTGCATCACTCAGGATGGAACACCTGCAGCAGCTGCTTCGGTG
ATAGCACCAAGTCGCGCACCAAGCTGGTGCTGCCAAGTCTCATCTCCTCTCGCATCTATG
TGGTGGACGTGGGCTCTGAGCCCCGGGCCCAAAGCTGCACAAGGTCAATTGAGCCCAAGG
ACATCCATGCCAAGTGCGAACTGGCCTTTCTCCACACCAGCCACTGCCTGGCCAGCGGGG
AAGTGATGATCAGCTCCCTGGGAGACGTCAAGGGCAATGGCAAAGGGGTTTTGTGCTGC
TGGATGGGAGACGTTGAGGTGAAGGGGACATGGGAGAGACCTCGGGGTGCTGCACCGT
TGGGCTATGACTTCTGGTACCAGCCTCGACACAATGTCATGATCAGCACTGAGTGGGCAG
CTCCCAATGTCTTACGAGATGGCTTTACCCCGCTGATGTGGAGGCTGGACTGTACCGGA
ACCACTTATATGTATGGGACTGGCAGCGCCATGAGATTGTGCANACCCTGTCTTTAAGA
TGGGCTTATTCCCTTGAAGATCCGCTTCTGGCAAACCAGACGCTGTCCAAGTTTGTGG
GTTGGCACCTCACTCCACCTT
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003944 unedited AATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGAAGGACAGGGTTACGAGTTTATTTCTT GGTGCCTCCAAGAGCTCATGGAAAAGCAGCACAGTGAGCAACAAGCAACAGTGGTCAGTA AATGTATATGACTCAACACATTGCCACAGTCTCAGCTTGGCTGTGTGGTACATGCTGCCA AGGGTCGGGTGCCAAGAGAGAGCAGAATGAAGCCAGGTCCCAAGGAAGTGAGGGCCCAA AATAGGGAGTGTGGGTGATGAGGGTGGAGTTCAAATCCAGATGTCAGAGCTACAATCGCC CCCAGGGTAGCGGAGCTCATGGGCAAGGGCTGGGCCAAGGGGCTCCTTCCCGAAGTCCAC CAGGAAGTTGGGGTTCAACTTCAGCCCTCCTTTTACTGTGTCTACATCAACCTGCAGCAT CACAGAGCCTTCCTGATGAGATCAGGGTAAAAGTCTTGTCCCAGGCACTGTACAGCGA CGTGGTGTGTAAGGCGCTTCCCATCCAGGCTGAGCTGGATCATCTGAGGGCCTCCAGC CACCCGTTTTCCCTTGACCACTANGGGCTCTGGCTGGGACTNTAGTTCTCGTCTCCAG CACTTGACAGGGCCCTNCCCCTTACATGCTGCCTCCGAGGAAGAGCTGCCTGTGAGGC GGNGTCTCTGTGGGTGAGAGATGCATACTGCCTCANGTCCCATGCANNCCAGTGTGA AGTANAGAAAACGGGTCGTCCAGGGAGAGCANGAATGTCNGTGATCAGGCCCTGCATTTT GGNCAGCANCCAGCCCTTACTTTCTTGNNGGGGCACCTGNATCACCTNCTCACTGACATG TACCTNCCTCGTTCTTGANAACGCTGGATGTTGGACTGANTGCCACCCACAAGCCTTGGC ACGTTTTGGGTGTGAGAACCGGTCTCAGGGATAACCATCTTTAAGACAGGCTGCCCAT CATGCCTGCAGTCAACATTAAGGGCTCCGCACC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003944
<b>Insert Size:</b>	1860 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_003944.2</a></u> , <u><a href="#">NP_003935.2</a></u>
<b>RefSeq Size:</b>	1721 bp
<b>RefSeq ORF:</b>	1419 bp
<b>Locus ID:</b>	8991
<b>UniProt ID:</b>	<u><a href="#">Q13228</a></u>
<b>Cytogenetics:</b>	1q21.3

**Gene Summary:**

This gene encodes a member of the selenium-binding protein family. Selenium is an essential nutrient that exhibits potent anticarcinogenic properties, and deficiency of selenium may cause certain neurologic diseases. The effects of selenium in preventing cancer and neurologic diseases may be mediated by selenium-binding proteins, and decreased expression of this gene may be associated with several types of cancer. The encoded protein may play a selenium-dependent role in ubiquitination/deubiquitination-mediated protein degradation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Apr 2012]

Transcript Variant: This variant (1) encodes isoform 1.