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Product datasheet for RC202108

Selenium Binding Protein 1 (SELENBP1) (NM_003944) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Selenium Binding Protein 1 (SELENBP1) (NM_003944) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Selenium Binding Protein 1
Synonyms:	EHMTO; HEL-S-134P; hSBP; LPSB; MTO; SBP56; SP56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC202108 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTACGAAATGTGGGAATTGTGGACCCGGCTACTCCACCCCTCTGGAGGCCATGAAAGGACCCAGGG
AAGAGATCGTCTACCTGCCCTGCATTTACCGAAACACAGGCACTGAGGCCCCAGATTATCTGGCCACTGT
GGATGTTGACCCCAAGTCTCCCCAGTATTGCCAGGTCATCCACCGGCTGCCCATGCCCAACCTGAAGGAC
GAGCTGCATCACTCAGGATGGAACACCTGCAGCAGCTGCTTCGGTGATAGCACCAAGTCGCGCACCAAGC
TGGTGCTGCCCAGTCTCATCTCCTCTCGCATCTATGTGGTGGACGTGGGCTCTGAGCCCCGGGCCCCAAA
GCTGCACAAGGTCATTGAGCCCAAGGACATCCATGCCAAGTGCGAACTGGCCTTTCTCCACACCAGCCAC
TGCCTGGCCAGCGGGGAAGTGATGATCAGCTCCCTGGGAGACGTCAAGGGCAATGGCAAAGGGGGTTTTG
TGCTGCTGGATGGGGAGACGTTCGAGGTGAAGGGGACATGGGAGAGACCTGGGGGTGCTGCACCGTTGGG
CTATGACTTCTGGTACCAGCCTCGACACAATGTCATGATCAGCACTGAGTGGGCAGCTCCCAATGTCTTA
CGAGATGGCTTCAACCCCGCTGATGTGGAGGCTGGACTGTACGGGAGCCACTTATATGTATGGGACTGGC
AGCGCCATGAGATTGTGCAGACCCTGTCTCTAAAAGATGGGCTTATTCCCTTGGAGATCCGCTTCCTGCA
CAACCCAGACGCTGCCCAAGGCTTTGTGGGCTGCGCACTCAGCTCCACCATCCAGCGCTTCTACAAGAAC
GAGGGAGGTACATGGTCAGTGGAGAAGGTGATCCAGGTGCCCCCCAAGAAAGTGAAGGGCTGGCTGCTGC
CCGAAATGCCAGGCCTGATCACCGACATCCTGCTCTCCCTGGACGACCGCTTCCTCTACTTCAGCAACTG
GCTGCATGGGGACCTGAGGCAGTATGACATCTCTGACCCACAGAGACCCCGCCTCACAGGACAGCTCTTC
CTCGGAGGCAGCATTGTTAAGGGAGGCCCTGTGCAAGTGCTGGAGGACGAGGAACTAAAGTCCCAGCCAG
AGCCCCTAGTGGTCAAGGGAAAACGGGTGGCTGGAGGCCCTCAGATGATCCAGCTCAGCCTGGATGGGAA
GCGCCTCTACATCACCACGTCGCTGTACAGTGCCTGGGACAAGCAGTTTTACCCTGATCTCATCAGGGAA
GGCTCTGTGATGCTGCAGGTTGATGTAGACACAGTAAAAGGAGGGCTGAAGTTGAACCCCAACTTCCTGG
TGGACTTCGGGAAGGAGCCCCTTGGCCCAGCCCTTGCCCATGAGCTCCGCTACCCTGGGGGCGATTGTAG
CTCTGACATCTGGATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202108 protein sequence
Red=Cloning site Green=Tags(s)

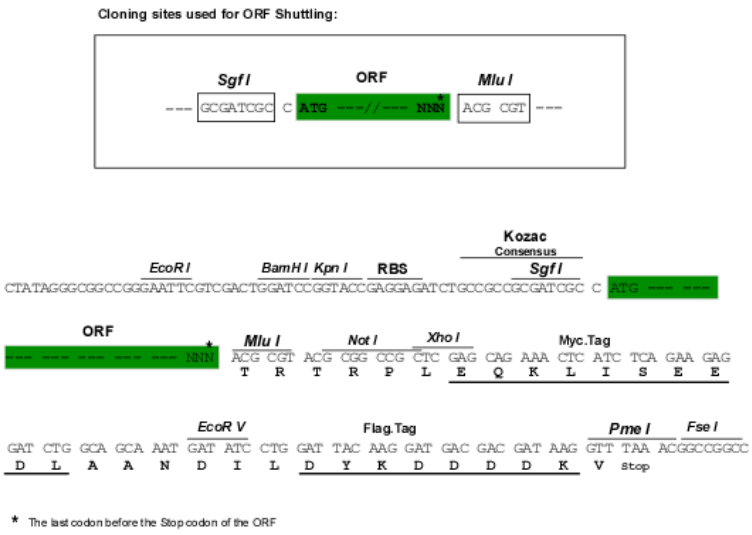
MATKCGNCGPGYSTPLEAMKGPREEIVYLPCIYRNTGTEAPDYLATVDVDPKSPQYCQVIHRLPMPNLKD
ELHHSGWNTCSSCFGDSTKSRTKLVLPSLISSRIYVVDVGSEPRAPKLHKVIEPKDIHAKCELAFLHTSH
CLASGEVMISSLGDVKGNGKGGFVLLDGETFEVKGTWERPGGAAPLGYDFWYQPRHNVMISTEWAAPNVL
RDGFNPADVEAGLYGSHLYVWDWQRHEIVQTLSLKDGLIPLEIRFLHNPDAAQGFVGCALSSTIQRFYKN
EGGTWSVEKVIQVPPKKVKGWLLPEMPGLITDILLSLDDRFLYFSNWLHGDLRQYDISDPQRPRLTGQLF
LGGSIVKGGPVQVLEDEELKSQPEPLVVKGKRVAGGPQMIQLSLDGKRLYITTSLYSAWDKQFYPDLIRE
GSVMLQVDVDTVKGGLKLNPNFLVDFGKEPLGPALAHELRYPGGDCSSDIWI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6134_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003944

ORF Size: 1416 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_003944.4

RefSeq Size: 1768 bp

RefSeq ORF: 1419 bp

Locus ID: 8991

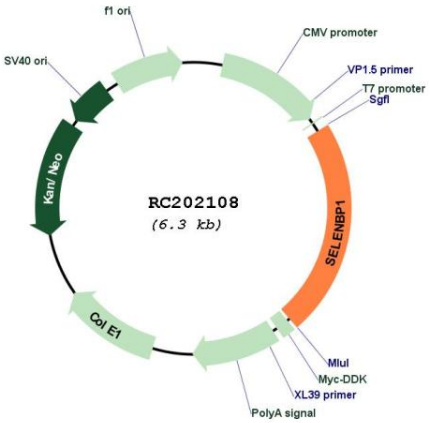
UniProt ID: Q13228

Cytogenetics: 1q21.3

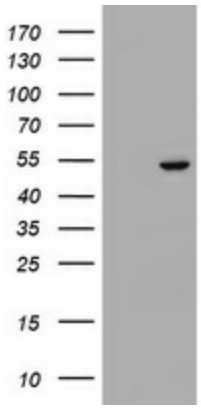
MW: 52.4 kDa

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]

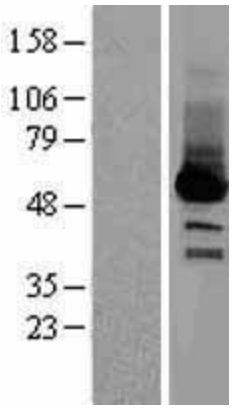
Product images:



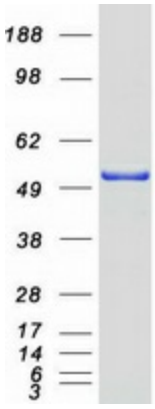
Circular map for RC202108



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SELENBP1 (Cat# RC202108, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SELENBP1 (Cat# [TA504700]). Positive lysates [LY401295] (100ug) and [LC401295] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401295]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202108 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SELENBP1 protein (Cat# [TP302108]). The protein was produced from HEK293T cells transfected with SELENBP1 cDNA clone (Cat# RC202108) using MegaTran 2.0 (Cat# [TT210002]).