

Product datasheet for **RG202108**

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:	TurboGFP
Symbol:	Selenium Binding Protein 1
Synonyms:	EHMTO; HEL-S-134P; hSBP; LPSB; MTO; SBP56; SP56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202108 representing NM_003944
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTACGAAATGTGGGAATTGTGGACCCGGCTACTCCACCCTCTGGAGGCCATGAAAGACCCAGGG
 AAGAGATCGTCTACCTGCCTGCATTTACCGAAACACAGGCACTGAGCCCCAGATTATCTGGCCACTGT
 GGATGTTGACCCCAAGTCTCCCCAGTATTGCCAGGTCATCCACCGGCTGCCCATGCCAACCTGAAGGAC
 GAGCTGCATCACTCAGGATGGAACACCTGCAGCAGCTGCTTCGGTATAGCACCAAGTCGCGCACCAAGC
 TGGTGCTGCCAGTCTCATCTCCTCTCGCATCTATGTGGTGGACGTGGGCTCTGAGCCCCGGCCCCAAA
 GCTGCACAAGGTCATTGAGCCCAAGGACATCCATGCCAAGTGCAGAACTGGCCTTTCTCCACACCAGCCAC
 TGCTGGCCAGCGGGGAAGTGATGATCAGCTCCCTGGGAGACGTCAAGGGCAATGGCAAAGGGGTTTTG
 TGCTGCTGGATGGGAGACGTTGAGGTGAAGGGGACATGGGAGAGACCTGGGGGTCTGCACCGTTGGG
 CTATGACTTCTGGTACCAGCCTCGACACAATGTCATGATCAGCACTGAGTGGGCAGCTCCAATGTCTTA
 CGAGATGGCTTCAACCCCGCTGATGTGGAGGCTGGACTGTACGGGAGCCACTTATATGTATGGGACTGGC
 AGCGCCATGAGATTGTGCAGACCCTGTCTCTAAAAGATGGGCTTATCCCTTGGAGATCCGCTTCTGCA
 CAACCCAGACGCTGCCAAGGCTTTGTGGGCTGCGCACTCAGCTCCACCATCCAGCGCTTCTACAAGAAC
 GAGGGAGGTACATGGTCAGTGGAGAAGGTGATCCAGGTGCCCCCAAGAAAGTGAAGGGCTGGCTGCTGC
 CCGAAATGCCAGGCTGATCACCAGACATCTGCTCTCCCTGGACGACCGCTTCTCTACTTCAGCAACTG
 GCTGCATGGGGACCTGAGGCAGTATGACATCTGACCCACAGAGACCCCGCCTCACAGGACAGCTTTC
 CTCGGAGGCAGCATTGTTAAGGGAGGCCCTGTGCAAGTGTGGAGGACGAGGAACAAAGTCCCAGCCAG
 AGCCCTTAGTGGTCAAGGGAAAACGGGTGGCTGGAGGCCCTCAGATGATCCAGCTCAGCTGGATGGGAA
 GCGCCTCTACATCACCAGTCGCTGTACAGTGCCTGGGACAAGCAGTTTTACCCTGATCTCATCAGGGAA
 GGCTCTGTGATGCTGCAGTTGATGTAGACACAGTAAAAGGAGGGCTGAAGTTGAACCCCAACTCTGG
 TGGACTTCGGAAGGAGCCCTTGGCCAGCCCTGCCCATGAGCTCCGCTACCCTGGGGCGATTGTAG
 CTCTGACATCTGGATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

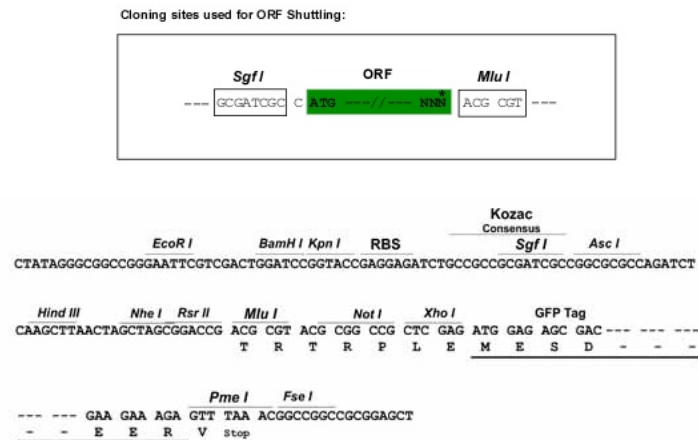
>RG202108 representing NM_003944
 Red=Cloning site Green=Tags(s)

MATKCGNCGPYSTPLEAMKGPREEIVYLPCIYRNTGTEAPDYLATVDVDPKSPQYCVIHRLPMPNLKD
 ELHHSWNTCSSCFGDSTKSRKLVLPSSLISSRIYVVDVGSEPRAPKLHKVIEPKDIHAKCELAFHTSH
 CLASGEVMISSLDGDKVGNKGKGFVLLDGETFEVKGWTERPGGAAPLGYDFWYQPRHNVMI STEWAAPNVL
 RDGFNPADVEAGLYGSHLYVWDWRHEIVQTLCLKDGLIPLEIRFLHNPDAAQGFVGCALSTIQRFYKN
 EGGTWSVEKVIQVPPKVKGWLLPEMPGLITDILLSLDDRFYF SNWLHGDLRQYDISDPQRPLTGQLF
 LGGSIVKGGPVQVLEDEELKSQPEPLVVKGRVAGGPQMIQLSLDGKRLYITTSLSYAWDKQFYPDLIRE
 GSVMLQVDVTVKGGKLNPNFLVDFGKEPLGPALAHELRYPGGDCSSDIWI

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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: 1721 bp

RefSeq ORF: 1419 bp

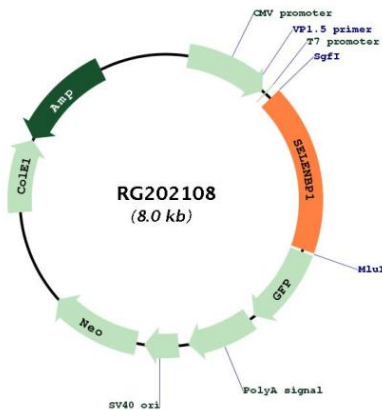
Locus ID: 8991

UniProt ID: [Q13228](#)

Cytogenetics: 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]

Product images:



Circular map for RG202108