Product datasheet for RC202108L4

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

Product data:

Product Type:	Expression Plasmids
Product Name:	Selenium Binding Protein 1 (SELENBP1) (NM_003944) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Selenium Binding Protein 1
Synonyms:	EHMTO; HEL-S-134P; hSBP; LPSB; MTO; SBP56; SP56
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC202108).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:

Sgf I   ORF   *Mlu I*

--- GCG ATC GC C ATG ---//--- NNN ACG CGT ---
*

EcoR I   BamH I   RBS   Kozak Consensus   Sgf I   ORF

CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGC C ATG --- --- ---

Mlu I   Not I   Xho I   mGFP Tag

--- --- --- --- --- --- --- NNN ACG CGT ACG CGG CCG CTC GAG ATG AGC GGG GGC --- --- --- ---
     T   R   T   R   P   L   E   M   S   G   G   - - - - -

--- --- GGA CTC AGA GTT TGG GTA GGA AGC
 - - G   L   R   V

* The last codon before the Stop codon of the ORF.

ACCN:	NM_003944
ORF Size:	1416 bp

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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003944.2
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:
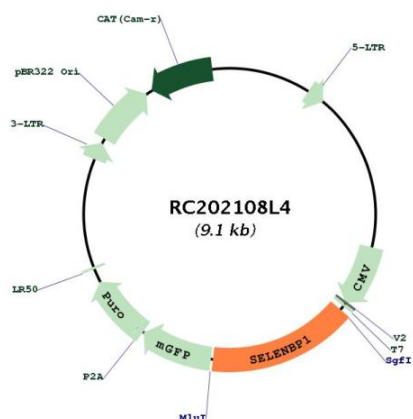
Circular map for RC202108L4