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Product datasheet for RG213932

SERPINB10 (NM_005024) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SERPINB10
Synonyms:	PI-10; PI10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG213932 representing NM_005024
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACTCTCTAGCAACATCAATCAACCAGTTTGCCCTGGAGTTGAGCAAAAAGCTAGCTGAATCTGCTC
AGGGTAAAAATATCTTCTTTTCTTCCTGGAGCATCTCAACTTCCTTGACCATAGTGTATTTGGGCGCCAA
AGGTACCACTGCAGCCCAAATGGCCCAGGTGCTTCAATTTAACAGAGACCAGGGAGTCAAATGTGACCCT
GAAAGTGAAAAAAAAAGGAAAATGGAATTCAACTTGAGCAACTCGGAAGAAATACACTCTGATTTCCAAA
CACTTATCTCAGAAATCCTCAAGCCCAACGATGACTACTTACTTAAAACAGCCAATGCGATATATGGAGA
GAAAACGTATGCATTTCACAATAAATATTTAGAAGACATGAAAACATATTTTGGTGCAGAACCTCAGCCT
GTTAACTTTGTGGAAGCTTCTGATCAAATCAGAAAGGACATCAACTCTTGGGTTGAAAGACAGACCGAGG
GTAAAATCCAGAATCTCCTGCCTGATGACTCTGTGGATTCCACAACCAGGATGATTCTGGTGAACGCCCT
ATACTTTAAAGGAATCTGGGAACATCAATTCTTAGTGCAAAACACCACAGAAAAGCCTTTTAGAATAAAC
GAGACTACAAGCAAACCAGTGCAAATGATGTTTATGAAGAAAAAGCTTCACATTTTTCACATAGAAAAGC
CAAAAGCAGTGGGCCTTCAACTCTACTACAAAAGCCGTGACCTCAGCCTGCTTATACTACTGCCAGAAGA
CATTAATGGGCTGGAACAGCTGGAAAAGGCCATCACCTATGAGAAGCTGAATGAGTGGACCAGTGCAGAC
ATGATGGAGTTGTATGAAGTGCAGCTACACCTTCCCAAGTTCAAGCTGGAAGACAGTTATGATCTCAAGT
CAACCCTGAGCAGTATGGGGATGAGTGATGCCTTCAGCCAAAGCAAAGCTGATTTCTCAGGAATGTCTTC
AGCAAGAAACCTATTTTTGTCCAATGTTTTCCATAAGGCTTTTGTGGAAATAAATGAACAAGGTACTGAA
GCTGCAGCTGGCAGTGGGAGTGAGATAAATATACGAATTAGAGTCCCATCCATTGAATTCAATGCAAATC
ACCCATTCCTCTTCTTCATCAGGCACAATAAAACCAACACCATTCTTTTTTATGGAAGATTATGCTCCCC
CT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

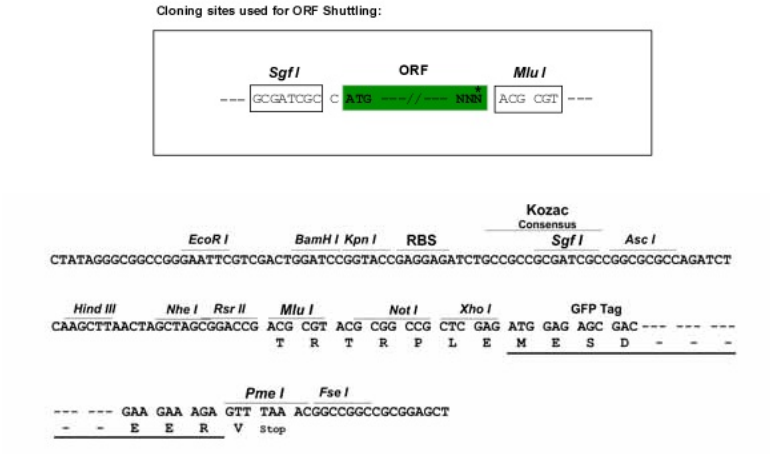
>RG213932 representing NM_005024
Red=Cloning site Green=Tags(s)

MDSLATSINQFALELSKKLAESAQGKNIFFSSWSISTSLTIVYLGAKGTTAAQMAQVLQFNRDQGVKCDP
ESEKKRKMEFNLSNSEEIHSDFQTLISEILKPNDDYLLKTANAIYGEKTYAFHNKYLEDMKTYFGAEPQP
VNFVEASDQIRKDINSWVERQTEGKIQNLLPDDSVDSTTRMILVNALYFKGIWEHQFLVQNTTEKPFRIN
ETTSKPVQMMFMKKKLHIFHIEKPKAVGLQLYYKSRDLSLLILLPEDINGLEQLEKAITYEKLNEWTSAD
MMELYEVQLHLPKFKLEDSYDLKSTLSSMGMSDAFSQSKADFSGMSSARNLFLSNVFHKAFVEINEQGTE
AAAGSGSEINIRIRVPSIEFNANHPFLFFIRHNKTNTILFYGRLCSP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005024

ORF Size: 1192 bp

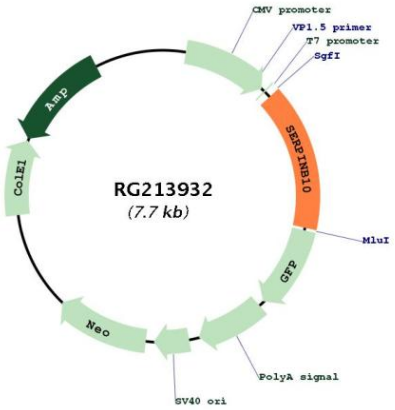
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005024.1, NP_005015.1
RefSeq Size:	1194 bp
RefSeq ORF:	1194 bp
Locus ID:	5273
UniProt ID:	P48595
Cytogenetics:	18q22.1
Domains:	SERPIN
Protein Families:	Druggable Genome
Gene Summary:	This gene is a member of the serpin peptidase inhibitor, clade B family and is found in a cluster of other similar genes on chromosome 18. The protein encoded by this gene appears to help control the regulation of protease functions during hematopoiesis. Variations in this gene may increase the risk of prostate cancer. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG213932