

Product datasheet for RC214682L1

p95 NBS1 (NBN) (NM_002485) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p95 NBS1 (NBN) (NM_002485) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	p95 NBS1
Synonyms:	AT-V1; AT-V2; ATV; NBS; NBS1; P95
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC214682).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



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

ACCN:	NM_002485
ORF Size:	2262 bp



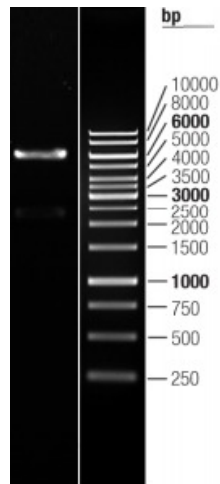
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OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), 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:	<ol style="list-style-type: none">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_002485.4
RefSeq Size:	4639 bp
RefSeq ORF:	2265 bp
Locus ID:	4683
UniProt ID:	O60934
Cytogenetics:	8q21.3
Domains:	FHA
Protein Families:	Druggable Genome
Protein Pathways:	Homologous recombination
MW:	84.8 kDa
Gene Summary:	Mutations in this gene are associated with Nijmegen breakage syndrome, an autosomal recessive chromosomal instability syndrome characterized by microcephaly, growth retardation, immunodeficiency, and cancer predisposition. The encoded protein is a member of the MRE11/RAD50 double-strand break repair complex which consists of 5 proteins. This gene product is thought to be involved in DNA double-strand break repair and DNA damage-induced checkpoint activation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC214682L1



Double digestion of RC214682L1 using SgfI and MluI