

Product datasheet for MR222713

Unc13b (NM_021468) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Unc13b (NM_021468) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Unc13b
Synonyms:	Munc13-1; Munc13-2; Unc13a; Unc13h1; Unc13h2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222713 representing NM_021468 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >MR222713 representing NM_021468
 Red=Cloning site Green=Tags(s)

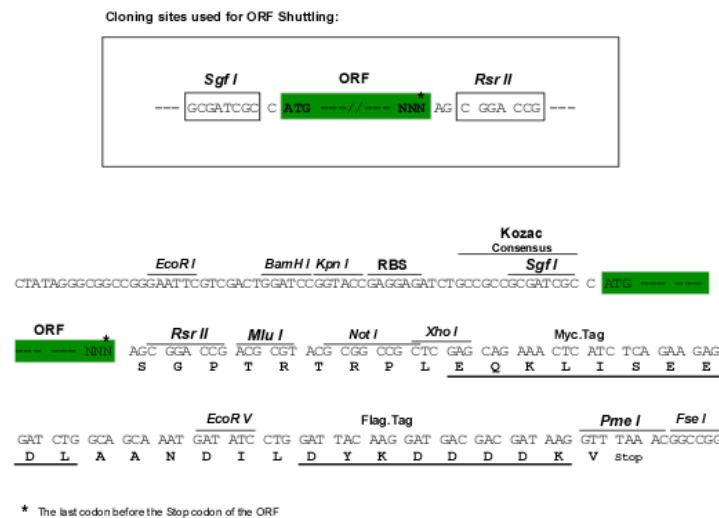
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Chromatograms: https://cdn.origene.com/chromatograms/mm9101_g07.zip

Restriction Sites: SgfI-RsrII

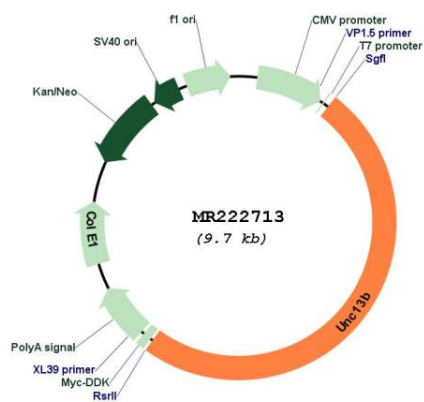
Cloning Scheme:



ACCN: NM_021468

ORF Size:	4806 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_021468.3 , NP_067443.2
RefSeq Size:	6426 bp
RefSeq ORF:	4809 bp
Locus ID:	22249
UniProt ID:	Q9Z1N9
Cytogenetics:	4 A5
MW:	181.8 kDa
Gene Summary:	Plays a role in vesicle maturation during exocytosis as a target of the diacylglycerol second messenger pathway. Is involved in neurotransmitter release by acting in synaptic vesicle priming prior to vesicle fusion and participates in the activity-dependent refilling of readily releasable vesicle pool (RRP) (By similarity). Essential for synaptic vesicle maturation in a subset of excitatory/glutamatergic but not inhibitory/GABA-mediated synapses. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222713