

Product datasheet for **MR209378**

Rpn1 (NM_133933) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpn1 (NM_133933) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rpn1
Synonyms:	AU018702; D6Wsu137e; Rpn-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209378 representing NM_133933
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGTCGCGCGTGCCTTGCTGTTGCTGCTGCTATGTCTCGGGCCTTGCCCGACGCCCGGCA
 GCGCCTCCTCGGAGGCTCCGCCGCTGGTCAACGAGGACGTGAAGCGCACGGTGGACCTGAGCAGCCACCT
 AGCCAAGGTGACGGCTGAGGTGGTCTGGTACACCCGGCGCGGCTCCACATCAGGAGCCAGCTCTTTC
 GTTCTGGCCCTGGAGCCAGAAGTGGAGTCGCGGCTTGCACCTAGGCGTGCAGATAAAGGGAGAAGATG
 AGGAAGACAACAACCTAGAAGTACGAGAAACAAAATTAAGGGAAAAGTGGGAGATTTTTCACGGTCAA
 GCTCCAGTTGCTCTTGATCCTGGGTCCAAGATCTCGGTGTTGTGAAACTGTCTACCCCATGTGCTT
 CATCCGTATCCGACTCAGATAACTCAGTCAGAGAAACAGTTCGTCGTGTTGAGGGCAACCATTATTTCT
 ACTCTCCCTATCCAACAAGACCCAGACCATGCGAGTAAACTGGCGTCCCGAAATGTGAAAGCTATAC
 CAAGCTGGGGAACCCCTCGAGATCTGAGGACGTCCTTGATTATGGCCTTTTAAAGACATCCCTGCCTAC
 AGTCAGGACACTTCAAAGTACATTACGAGAACAATAGCCCTTTCCTGACCATCACCAGTATGACCCGGG
 TCATCGAGGTATCTACTGGGGCAATATTGCTGTGGAAGAGAACGTGGACTTGAAGCACAGGGCGCAGT
 GCTGAAGGGGCTTTCTCCCGTACGATTACCAGAGGCAGCCTGACAGTGGGATCTCCTCCATTCGTTCT
 TTTAAGACCATCCTTCTGCTGCCGCCAGGATGTCTATTACCGGATGAGATTGGTAATGTTTCCACCA
 GCCACCTCCTTATCTGGATGACTCTGTGAAATGAAATCCGGCCTCGATTTCTCTCTTTGGAGGGTG
 GAAGACACACTACATCGTTGGTTACAACCTCCCAAGCTATGAATACCTCTATAATCTGGGTGACCAGTAT
 GCACTGAAGATGCGGTTGTAGACCACGTGTTGATGAGCAAGTATAGATTCTGACAGTGAAGATCA
 TCTTGCCCGAGGGAGCCAAGAACAATCCAGGTGGACAGTCCCTACGATATCAGCCGGGCCAGCAGATC
 GCATTATACCTACCTAGACACGTTCCGGCGCCCGGTGATTGTGGCTTACAAGAAGAATCTCGTCGAGCAA
 CACATTACAGGACATTGTGGTGCCTACACGTTCAACAAGTTCTCATGCTGCAGGAGCCGCTGCTGGTCCG
 TGGCCGCTTCTACATCCTGTTCTTACCGTCACTCATCTACGTCCTGACTTTTCCATCACCAAGGA
 TCCAGTGCAGAAGCCAGGATGAAAGTGGCCTGTATCACAGAGCAGGCTTAAACCCTGGTCAACAAGAGG
 CTGGCCCTCTACCGTCACTTTGATGAGACTGTCAATAGATAACAAGCAGTCCCGGATATCTTACCTCA
 ACAGTGGCAAGAAGAGCCTAGAGACAGAGCACAAGGCTGTGACCAGCGAGATTGCTGTACTGCAGTCTCG
 GCTGAAGACGGAGGGCTCAGACCTGTGTACAGGGTGAAGTGCAGAAGCTGGACGCCAGGTCAAG
 GAGCTGGTCTGAAGTCGGCGTGAAGCAGAGAGGCTGGTGGCTGGCAAGCTCAAGAAGGATACGTACC
 TGGAAAACGAGAAGCTCAGCTCAGGAAAACGCCAGGAGCTGGTACCAAGATCGACCACATCCTGGATGC
 TCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209378 representing NM_133933
 Red=Cloning site Green=Tags(s)

MESPVALLLLLLLCLGALAPTPGSASSEAPPLVNEDVKRTVDLSSHLAKVTAEVVLVHPGGGSTRASSF
 VLALPELESRLAHLGVQIKGEDEEDNNLEVRETKIKGKSGRFFTVKLPVALDPGSKI SVVETVYTHVL
 HPYPTQITQSEKQFVVFEGNHFYSPYPTKTQTMRVKLASRNVESYTKLGNPSRSEDVLDYGPFKDIPAY
 SQDTFKVHYENNSPFLTITSMTRVIEVSHWGNIAVEENVDLKHTGAVLKGPFSRYDYQRQPDSGISSIRS
 FKTIILPAAAQDVYYRDEIGNVSTSHLLILDDSVEMEIRPRFPLFGGWKTHYIVGYNLPSYEYLYNLGDQY
 ALKMRFDVHVFDEQVIDSLTVKIILPEGAKNIQVDSPTYDISRAPDELHYTYLDTFGRPVI VAYKKNLVEQ
 HIQDIVVHYTFNKVLMLEPLL VVAIFYILFFTVIIYVRLDFSI TKDPAAEARMKVACITEQVLTLYNKR
 LGLYRHFDETVNRYKQSRDITLNSGKKSLETEHKAVTSEIAVLQSRKTEGSDLCDRVSEMQLDAQVK
 ELVLKSAVEAERLVAGLKKDYLENEKLSGKRQELVTKIDHILDAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9027_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133933

ORF Size: 1824 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_133933.4](#), [NP_598694.3](#)

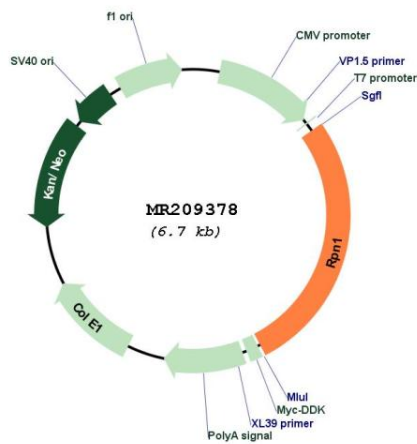
RefSeq Size: 3642 bp

RefSeq ORF: 1827 bp

Locus ID: 103963
UniProt ID: [Q91YQ5](#)
Cytogenetics: 6 39.13 cM
MW: 69 kDa

Gene Summary: Subunit of the oligosaccharyl transferase (OST) complex that catalyzes the initial transfer of a defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol-pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains, the first step in protein N-glycosylation. N-glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). All subunits are required for a maximal enzyme activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209378