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Product datasheet for MR209608

Rpn2 (NM_019642) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rpn2 (NM_019642) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rpn2
Synonyms:	1300012C06Rik; AV261018; Rpn-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR209608 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCCGCCGGGTTCAAGCGCTGTCTTCCTGTTGGCCCTGACAATCACTGCCAGCGTCCAGGCTCTGA
CCCCCACCCACTACCTCACCAAGCAGGATGTGGAAAGGCTGAAGGCCTCACTGGACCGCCCCTTCACAGA
TTTGGAGTCTGCCTTCTACTCCATCGTGGGACTCAGCAGCCTTGGGGTACAGGTGCCAGATGTCAAGAAA
GCGTGTACCTTCATCAAGTCCAACCTTGATCCCAGCAACGTGGATTCTCTCTTCTATGCAGCCCAGTCCA
GCCAGGTCCTCTCAGGCTGTGAGATATCTGTTTCAAATGAGACCAAAGAGCTCCTGCTGGCAGCAGTGAG
TGAAGACTCCCCCATTGCCCAGATCTACCATGCAGTTGCAGCACTCAGCGGGTTTGGGCTTCCCTTGGCA
TCCAATGAAGCCCTCGGTGCCCTTACCGCTCGCCTCGGCAAGGAAGAGACTGTGCTAGCAACGGTCCAGG
CTCTGCAGACAGCGTCCCACCTCTCCCAGCAGGCTGACCTGAGGAACATTGTAGAGGAGATTGAGGACCT
TGTTGCTCGGCTGGATGAACTAGGGGGTGTGTATCTGCAGTTTGAGGAAGGACTGGAGCTCACGGCGCTG
TTTGTTGCTGCCACCTACAAGCTCATGGACCACGTGGGGACCGAACCGTCCATGAAGGAGGATCAGGTTA
TCCAGCTCATGAACACAATCTTCAGCAAGAAGAACTTTGAGTCCCTCTCAGAAGCCTTCAGTGTGGCCTC
TGCTGCTGCTGCATTGTCCCAGAATCGCTACCACGTACCAGTGGTGGTTGTGCCCGAGGGCTCTACTTCT
GACACTCAAGAACAGGCTATCCTGAGGTTGCAGGTCAGCAATGTTTTGTCTCAGCCTCTGGCTCAAGCTG
CAGTGAAGCTGGAGCATGCTAAGTCGGCGGCTACCAGGGCTACCGTCCTGCAGAAGACGCCCTTTTCGCT
TGTGGGGAATGTTTTTGAGCTAAACTTCAAGAATGTTAAACTTTCCAGTGGCTACTATGACTTCTCTGTC
CGAGTTGAAGGTGACAGCCGTTACATTGCAAACACTGTAGAGCTTCGAGTCAAGATCTCCACTGAAGTTG
GCATCACAAATGTTGATCTTTCCACTGTGGATAAGGATCAGAGCATTGCACCCAAAACTACCCGGGTGAC
CTACCCAGCCAAAGCCAAGGGTACATTCATCGCAGACAGCCATCAGAACTTTGCCCTGTTTTTCCAGCTG
GTAGATGTGAACACCGGTGCGGAGCTCACCCCTCACCAGACGTTTGTTCGACTTCATAACCAGAAGACTG
GCCAGGAAGTGGTGTTTGTTGCTGAGCCAGATAACAAGAATGTATATAAGTTTGAACTGGACACCTCTGA
AAGGAAGATTGAATTTGACTCTGCCTCTGGCACCTACACACTCTACTTAATCATCGGGGATGCCACATTG
AAGAACCCAATCCTCTGGAACGTGGCTGACGTGGTTATCAAGTTCCCTGAGGAGGAAGCCCCCTCGACTG
TGCTGTCCCAGAGCCTGTTTACCCCAAAACAGGAAATTCAGCACCTGTTCCGAGAGCCTGAGAAGAGGCC
CCCCACAGTGGTGTCCAATACATTCACGGCCCTCATCCTCTCGCCCTTGCTCCTGCTCTTTGCACTGTGG
ATCCGGATTGGAGCCAATGTCTCCAACTTCACATTTGCTCCTAGCACAGTTATCTTCCACCTGGGACATG
CTGCGATGCTGGGCCTCATGTATATCTACTGGACTCAGCTCAACATGTTCCAGACCCTCAAGTACCTGGC
TGTCCTGGGCACTGTGACGTTTCTGGCTGGCAACCGAATGCTGGCCCAGCATGCAGTTAAGAGAACAGCA
CAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209608 protein sequence
Red=Cloning site Green=Tags(s)

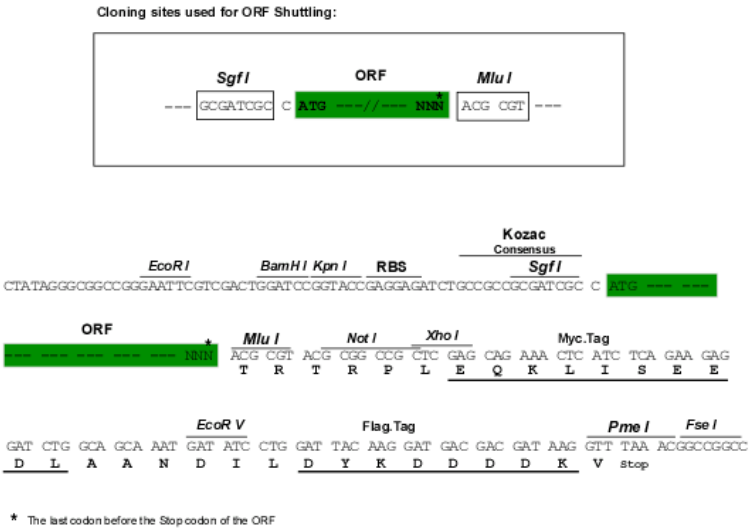
MAPPGSSAVFLLALTITASVQALTPTHYLTKQDVERLKASLDRPFTDLESAFYSIVGLSSLGVQVPDVKK
ACTFIKSNLDPSNVDSLFYAAQSSQVLSGCEISVSNETKELLLAAVSEDSPIAQIYHAVAALSGFGLPLA
SNEALGALTARLGKEETVLATVQALQTASHLSQQADLRNIVEEIEDLVARLDELGGVYLQFEEGLELTAL
FVAATYKLMDHVGTEPSMKEDQVIQLMNTIFSKKNFESLSEAFSVASAAAALSQNRYHVPVVVVPEGSTS
DTQEQAILRLQVSNVLSQPLAQAAVKLEHAKSAATRATVLQKTPFSLVGNVFELNFKNVKLSSGYYDFSV
RVEGDSRYIANTVELRVKISTEVGITNVDLSTVDKDQSIAPKTTRVTYPAKAKGTFIADSHQNFALFFQL
VDVNTGAELTPHQTFVRLHNQKTGQEVVFVAEPDNKNVYKFELDTSERKIEFDSASGTYTLYLIIGDATL
KNPILWNVADVVIKFPEEEAPSTVLSQSLFTPKQEIQHLFREPEKRPPTVVSNTFTALILSPLLLLFALW
IRIGANVSNFTFAPSTVIFHLGHAAMLGLMYIYWTQLNMFQTLKYLAVLGTVTFLAGNRMLAQHAVKRTA
H

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_019642

ORF Size:

1896 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_019642.4, NP_062616.2

RefSeq Size: 2716 bp

RefSeq ORF: 1896 bp

Locus ID: 20014

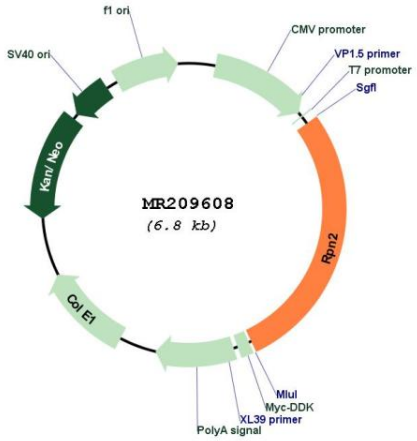
UniProt ID: Q9DBG6

Cytogenetics: 2 78.2 cM

MW: 69.1 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 MR209608