

Product datasheet for **MR202783**

Ropn1l (NM_145852) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ropn1l (NM_145852) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ropn1l
Synonyms: Akapasp; ASP; AV047578
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202783 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCTGCCCGACACCATGTTCTGCGCGCAGCAGATCCACATCCCCCGGAGCTGCCGGACATCCTCA
AGCAGTTCACCAAGGCTGCCATCCGTACGCAGCCGGCGGACGTGCTGCAGTGGTCGGCGGGTATTTTTC
AGCCCTGTCCAGAGGAGACCCACTTCTGTAAAGGACAGAATTGAAATGCCTGTGGCCACACAGAAGACT
GACACAGGCTGACCCAGGGACTCCTGAAAGTCTGCACAAGCAGTGTAGCCACAAGCAATATGTGGAGT
TAGCAGATCTTGAGAAGAAGTGAAAAATTTGTGCCTGCCAGTAGAAAAGCTCAGAACGATCCTGGAGCT
GGATCCATGTGAGGACAAAATAGAGTGGATCAAGTTTTAGCGCTCGGATGCAGCTCCCTGGGCAGGACC
CTGAACACGGCCATGAAGAACGTGTGTGAGATCCTCACCTCTGACCCGGAGGGCGGGCTGCTCGCATCC
CCTTTGAAACCTTTGCCTATGTTTACCAGTACTTGTCTGGACTGGACCCAGAAGCTCCCGCCGTGGAGAC
CGAGAAGTATCTTACCAGTTTAAGACTGATGTCAGAATCTAGAAAAGATGGCATGATAGGACTTTCCGGAC
TTCTTCGTTGGAAAAAGATAATA

ACGCGTACGCGGCGCTCGAGCAGAAA**ACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**
ACAAGGATGACGACGATAAG**GTTTAA**



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Protein Sequence: >MR202783 protein sequence
 Red=Cloning site Green=Tags(s)

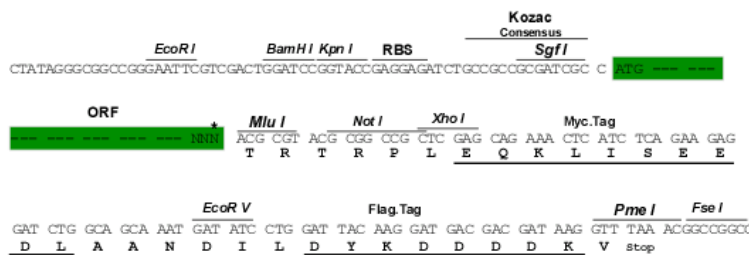
MPLPDTMFCAQQIHIPPELDPILKQFTKAAIRTQPADVLQWSAGYFSALSRGDPLPVKDRIEMPVATQKT
 DTGLTQGLLKVHLKQCCHKQYVELADLEKKWKNLCLPVEKLRITILELDPCEDKIEWIKFLALGCSSLGRT
 LNTAMKNVCEILTSDPEGPARIPFETFAYVYQYLSGLDPELPAVETENYLTSLRLMSERSRKNMIGLSD
 FFVGGKII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145852

ORF Size: 657 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_145852.2](#), [NP_665851.2](#)

RefSeq Size: 910 bp

RefSeq ORF: 657 bp

Locus ID: 252967

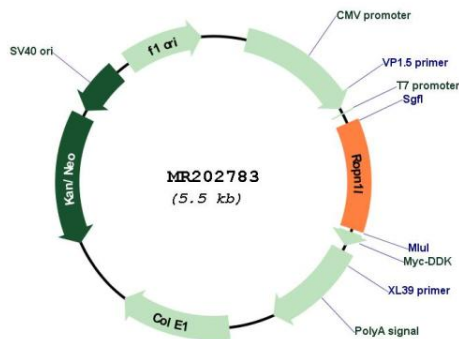
UniProt ID: [Q9EQ00](#)

Cytogenetics: 15 B2

MW: 24.5 kDa

Gene Summary: Important for male fertility. With ROPN1, involved in fibrous sheath integrity and sperm motility, plays a role in PKA-dependent signaling processes required for spermatozoa capacitation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202783