

Product datasheet for **RR210409**

Ptov1 (NM_001008304) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptov1 (NM_001008304) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptov1
Synonyms:	MGC94482
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR210409 representing NM_001008304 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCCGCCCGCGCGTCCCCGCACCGCTCCGGCGCCGGGGCCCCCTCGGAGGTCGTGGCCGGCCAC
 CGCGGCCCTGGTCGTCCGCGCGTGCCTCACGCTCCTGGCCTGCTGGCCCTCGAGGCCCGCAGCCGCC
 GCGGATCCGGGCCGTTCCGGCCCTCCCATGGAAGGTGCTCGAGTCTTTGGGGCCCTGGGCGGATCGGG
 CCTCCTCTCCTGGGCTGACTCTTGGGGACTCGCAGTGAATGAGCACCGGCTCAGCAACAACTGCTGG
 CCTGGAGTGGCGTCTGGAGTGGCAGGAGAAGCGTAGACCCTTCTCGGACTCCGCCGCAAAGCTGAAGCG
 CACCCTGCCCTGCCAGGCCTATGTGAACCAGGGCGAGAACCTGGAGACGACAGTGGCCCCAGAAGCTG
 ATCATGCAGCTCATCCCAACAGCTGCTGACCACACTGGGCCCCCTGTTCCGAACTCTCAGCTGGCCC
 AGTTCCAATTACCAACAGAGACTGTGACTCCCTCAAGGGCCTCTGCCGATCATGGGCAATGGCTTCGC
 GGGCTGCATGCTCTTCCCCACATTTCTCTTGGCAGGTGCGTGTCTCATGCTCCTGTACTCGTCTAAG
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 CCACCCGCAAGCAGGCTGTGGGCCCTGGAGGGTGCACCTCTGGACCTGTTCAATTGTCAACAACAATT
 CTTGGCATGGAGTGGAGTCATGGAGTGGCAAGAGCCAGGCCCTGAGCCCAACAGCCGTCGAAGCGGTGG
 CTGCCATCCACGCTATGTGAACCAAGGAGAGATCCTGAGAACGGATCAGTGGCCTCGGAGGCTCTTCA
 TGCAGCTCATTCCACAGCAGTTGCTGACCACCCTCGTGCCACTGTTCCGGAACCTACGCCTGGTACAGT
 CCACTTCACTAAGGACATGGAGACTCTGAAGAGCCTGTGCCGATCATGGACAATGGCTTCGCGGCTGC
 GTGCATTCTCTATAAGGCCTCGTGCGAGTTGCGTGTCTCATGCTCCTGTACTCCTCGGAGAAGAAGA
 TCTTCATTGGCCTCATCCCGCATGACCAGAGCAACTTTGTCAATGGTATCCGTCGTGTCATTGCCAACCA
 GCAGCAGGTCCTGCAGCGAAGCCTGGAGCAGGAGCAGCAGCAGCAGGAGGATGGGTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR210409 representing NM_001008304
 Red=Cloning site Green=Tags(s)

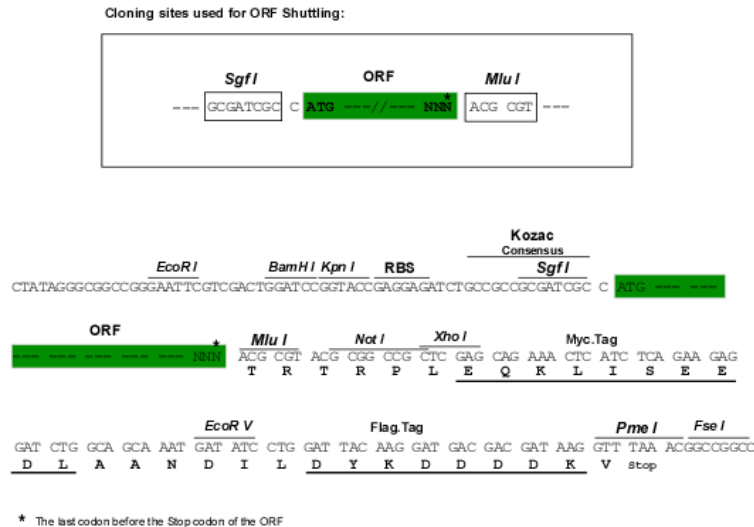
MVRPRRAPHRSAGGGLGGRGRPPRPLVVRVRSRSPAGPRGPQPPRIRARSAPPMEGARVFGALGPIG
 PSSPGLTLGGLAVNEHRLSNKLLAWSGVLEWQEKRRPFSDSAALKRTLPCQAYVNQGENLETQWPQKL
 IMQLIPQQLLTTLGPLFRNSQLAQFHTNRDCDSLKGLCRIMGNGFAGCMLFPHISPCVLRVLMMLYSSK
 KKIFMGLIPYDQSGFVNIRQVITTRKQAVGPGGVHSGVPQIVNNKFLAWSGVMEWQEPREPNSRSKRW
 LPSHVYVNQGEILRTDQWPRLFMQLIPQQLLTTLVPLFRNSRLVQFHFTKDMETLKSCLCRIMDNGFAGC
 VHFSYKASCEVRVLMMLYSSEKKIFIGLIPHDQSNFVNGIRRVIANQQQVLQRSLEQEQQQRGMGG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001008304

ORF Size: 1248 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_001008304.1](#), [NP_001008305.1](#)

RefSeq Size: 1748 bp

RefSeq ORF: 1251 bp

Locus ID: 292888

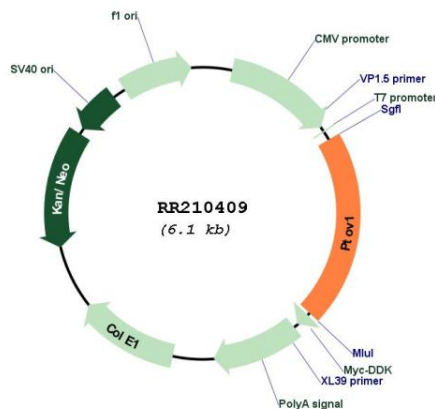
UniProt ID: [Q5U2W6](#)

Cytogenetics: 1q22

MW: 46.8 kDa

Gene Summary: May activate transcription. Required for nuclear translocation of FLOT1. Promotes cell proliferation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR210409