

Product datasheet for **RC236676**

PPP1R7 (NM_001282414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R7 (NM_001282414) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP1R7
Synonyms:	SDS22
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC236676 representing NM_001282414 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGAACATGAGCTGCCTGTGGACATGAAACCATCAACCTGGACAGAGATGCAGAGGATGTTGATT
TGAATCACTATCGCATAGGGAAGATTGAAGGATTTGAGGTAAGAAAGTGAAGACTCTCTGCCTCCG
CCAAAATTTAATTAATGCATTGAGAATCTGGAGGAGCTACAGAGTCTTCGAGAGCTGGATCTTTACGAC
AACCAGATCAAGAAGATTGAGAACTGGAGGCGCTAACAGAGCTGGAGATTCTAGATATTTCTTTAATC
TGCTGAGAAACATCGAAGGGTTGACAAGTTGACACGACTGAAAAAATCTTCTTGGTCAACAATAAAAT
CAGTAAATTTGAGAACTTAAGCAACTTACATCACTACAGATGCTAGAGCTGGGATCTAACC GCATCCGG
GCAATCGAAAATATCGACACCTTAACCAACCTGGAGAGTTTGTGTTTGGGGAAAAACAAAATTAACAA
TTCAGAACCTGGATGCGCTACCAACCTGACAGTCCTCAGTATGCAGAGCAACCGGCTGACCAAGATCGA
GGGTCTGCAGAACCTGGTGAACCTGCGGGAGCTGTACCTTAGCCACAATGGCATCGAGGTCATCGAGGGC
CTGGAGAAACAATGTCAGGACAGCCTCACGTAC

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236676 representing NM_001282414
 Red=Cloning site Green=Tags(s)

MEEHELPMETINLDRDAEDVDLNHYRIGKIEGFVLLKVKTLCLRQNLKCIENLEELQSLRELDLYD
 NQIKKIENLEALTELEILDISFNLLRNIEGVKDLTRLKKLFLVNNKISKIENLSNLHQLQMLELGSNRIR
 AIENIDTLTNLESLFLGKNKIKLQNLDALTNLTVLSMQSNRLTKIEGLQNLVNLRELYLSHNGIEVIEG
 LENNVQDSLTY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

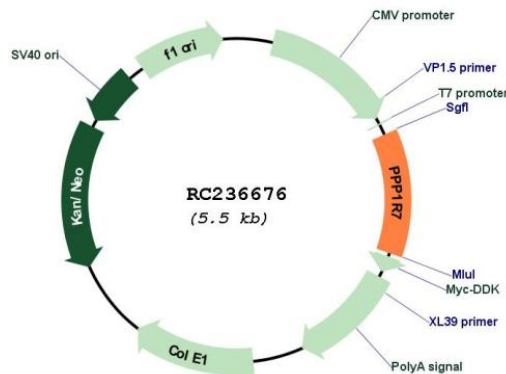
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001282414

ORF Size: 663 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:	<ol style="list-style-type: none">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_001282414.1 , NP_001269343.1
RefSeq Size:	920 bp
RefSeq ORF:	666 bp
Locus ID:	5510
UniProt ID:	Q15435
Cytogenetics:	2q37.3
Protein Families:	Druggable Genome, Phosphatase
MW:	26 kDa
Gene Summary:	This gene encodes a protein subunit that regulates the activity of the serine/threonine phosphatase, protein phosphatase-1. The encoded protein is required for completion of the mitotic cycle and for targeting protein phosphatase-1 to mitotic kinetochores. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]