

Product datasheet for **RG237310**

PPP1R7 (NM_001282413) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP1R7 (NM_001282413) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP1R7
Synonyms:	SDS22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237310 representing NM_001282413. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAAGAACATGAGCTGCCTGTGGACATGAAACCATCAACCTGGACAGAGATGCAGAGGATGTTGAT
TTGAATCACTATCGCATAGGGAAGATTGAAGGATTTGAGGTACTGAAGAAAGTGAAGACTCTCTGCCTC
CGCCAAAATTTAATTAATGCATTGAGAATCTGGAGGAGCTACAGAGTCTTCGAGAGCTGGATCTTTAC
GACAACCAGATCAAGAAGATTGAGAATCTGGAGGCGCTAACAGAGCTGGAGATTCTAGATATTTCTTTT
AATCTGCTGAGAAACATCGAAGGGTTGACAAGTTGACACGACTGAAAAAATCTTCTTGGTCAACAAT
AAAATCAGTAAAATTGAGAACTTAAGCAACTTACATCAACTACAGATGCTAGAGCTGGGATCTAACC GC
ATCCGGGCAATCGAAAATATCGACACCTTAACCAACCTGGAGAGTTTGTCTTTGGGGAAAAACAAAATT
ACTAAACTTCAGAACCTGGATGCGCTCACCAACCTGACAGTCTCAGTATGCAGAGCAACCCGGCTGACC
AAGATCGAGGGTCTGCAGAACCTGGTGAACCTGCGGGAGCTGTACCTTAGCCACAATGGCATCGAGGTC
ATCGAGGGCCTGGAGAACAATAACAACTCACGATGTTGGACATTGCATCAAATAGAATCAAAAAGATT
GAAAATATCAGCCATCTAACAGAGCTGCAAGAGTTCTGGATGAACGACAATCTCCTTGAGAGCTGGAGC
GACCTCGACGAGCTGAAGGGAGCCAGGAGCCTGGAGACAGTGTACCTGGAGCGGAACCCCTTGCAGAG
GACCCCCAGTACCGGCGGAAGGTCATGCTCGCCCTCCCCTCCGTGCGGCAGATCGATGCCACGTTTCGT
AGTTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237310
 Blue=ORF Red=Cloning site Green=Tag(s)

MEEHELPMETINLDRDAEDVDLNHYRIGKIEGFEVLKVKTLCLRQNLKCIENLEELQSLRELDLY
 DNQIKKIENLEALTELEILDISFNLLRNIEGVKDLTRLKKLFLVNNKISKIENLSNLHQLQMLELGSNR
 IRAIENIDLTNLESLFLGKNKITKLNLDALTNLTVLSMQSNRLTKIEGLQNLVNLREL YLSHNGIEV
 IEGLENNKLTMLDIASNRIKKIENISHLTELQEFWMNDNLLESWSDLDELKGARSLETVYLERNPLQK
 DPQYRRKVMLALPSVRQIDATFVRF
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001282413

ORF Size: 903 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).

RefSeq: [NM_001282413.1](#), [NP_001269342.1](#)

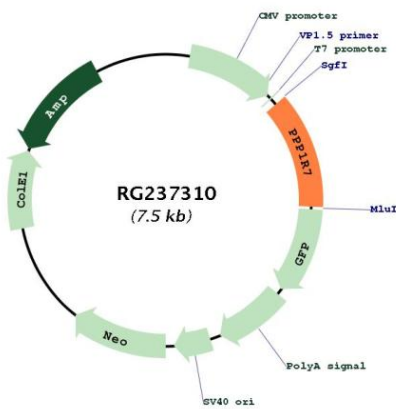
RefSeq Size: 1878 bp

RefSeq ORF: 906 bp

Locus ID: 5510
UniProt ID: [Q15435](#)
Cytogenetics: 2q37.3
Protein Families: Druggable Genome, Phosphatase
MW: 35.6 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]

Product images:



Circular map for RG237310